

*2003*

*MISSOURI*

*TRAFFIC SAFETY*

*COMPENDIUM*

Principal Staff Researchers:

Phyllis Emmel, Research Analyst

**MISSOURI STATE HIGHWAY PATROL  
STATISTICAL ANALYSIS CENTER  
1510 East Elm  
Jefferson City, Missouri 65101  
(573) 751-9000**

## **ACKNOWLEDGEMENTS**

This publication was developed by the Missouri State Highway Patrol to provide Federal, State, and local traffic safety authorities with a comprehensive analysis of Missouri's traffic safety problems. Agencies, such as the Missouri Department of Transportation, Highway Safety Division, rely heavily on this publication in their traffic safety planning processes and to acquire federal grant funding support for traffic safety programs.

Traffic crash data is the primary source of information used in this publication. These data were obtained from the Statewide Traffic Accident Records System (STARS). The Missouri State Highway Patrol, Traffic Division is directly responsible for coordinating STARS as well as encoding all traffic crash reports received by the program.

Special recognition must be given to all Missouri law enforcement agencies and officers who provide traffic crash investigation services on Missouri's roadways and conscientiously report their findings to STARS. Because of their efforts, traffic safety authorities are able to analyze Missouri traffic crash problems in order to develop policies and programs designed to effectively address them.

Over the past few years, the ability to analyze Missouri's traffic safety problems using STARS data has been greatly enhanced, in large part, due to the Missouri Traffic Records Committee. This Committee was developed to act as an advisory body to the Missouri State Highway Patrol for upgrading and maintaining STARS.

A number of other agencies contributed to development of this publication. The Missouri Department of Transportation provided information on annual miles of travel and updated vehicle registration activity levels. The Missouri Department of Revenue provided drivers licensing data.

Finally, the Missouri Department of Transportation, Highway Safety Division provided the Missouri Statistical Analysis Center with invaluable technical assistance and federal grant funding support from the U.S. Department of Transportation, National Highway Traffic Safety Administration. Both these agencies have, over the years, supported Missouri Statistical Analysis Center efforts in providing information services and publications to traffic safety authorities.

Ronald G. Beck, Director  
Missouri Statistical Analysis Center

# CONTENTS

	PAGE
EXECUTIVE SUMMARY	
INTRODUCTION .....	1
1.0 MISSOURI TRAFFIC SAFETY PERSONAL INJURY PROBLEM ANALYSIS CLOCK .....	3
2.0 MISSOURI STATEWIDE TRAFFIC SAFETY ANALYSIS .....	7
3.0 MISSOURI DETAIL TRAFFIC SAFETY PROBLEM ANALYSIS .....	13
3.1 Speed Involvement .....	15
3.2 Drinking Involvement .....	31
3.3 Young Driver Involvement .....	49
3.4 Older Driver Involvement .....	67
3.5 Commercial Motor Vehicle Involvement .....	83
3.6 Motorcycle Involvement .....	101
3.7 School Bus Involvement .....	117
3.8 Bicycle Involvement .....	135
3.9 Pedestrian Involvement .....	151
3.10 Fixed Object Involvement .....	169
3.11 Hazardous Material Involvement .....	187
3.12 Construction / Other Work Zone Involvement .....	203
3.13 Seat Belt Usage .....	219
4.0 MISSOURI COUNTY AND CITY TRAFFIC CRASH ANALYSIS .....	235
GLOSSARY .....	277

## TABLES

### PAGE

### MISSOURI STATEWIDE TRAFFIC SAFETY ANALYSIS

2.0.1	State of Missouri, Traffic Safety Statistics, 1979 - 2003 .....	9
2.0.2	1994 - 2003 Missouri Traffic Crashes, Year by Crash Severity .....	10

### MISSOURI DETAIL TRAFFIC SAFETY PROBLEM ANALYSIS

#### Speed Involvement

3.1.1	2003 Missouri Traffic Crashes, Speed Involvement .....	16
3.1.2	2002 and 2003 Speed-Involved Crash Analysis .....	17
3.1.3	2003 Speed-Involved Crashes, Crash Type by Crash Severity .....	17
3.1.4	2003 Speed-Involved Crashes, Area Classification by Crash Severity .....	18
3.1.5	2003 Speed-Involved Crashes, Road Curvature by Crash Severity .....	18
3.1.6	2003 Speed-Involved Crashes, Road Incline by Crash Severity .....	18
3.1.7	2003 Speed-Involved Crashes, Road Conditions by Crash Severity .....	19
3.1.8	2003 Speed-Involved Crashes, Highway Classification by Crash Severity .....	19
3.1.9	2003 Speed-Involved Crashes, Highway Classification by Area Classification and Crash Severity .....	20
3.1.10	Drivers of Motorized Vehicles Speeding in 2003 Missouri Crashes, Type of Speeding Violation .....	23
3.1.11	Drivers of Motorized Vehicles Speeding in 2003 Missouri Crashes, Sex of Driver by Crash Severity .....	23
3.1.12	Drivers of Motorized Vehicles Speeding in 2003 Missouri Crashes, Age of Driver by Crash Severity .....	24
3.1.13	Drivers of Motorized Vehicles Speeding in 2003 Missouri Crashes, Driver's License State and Type by Crash Severity .....	25
3.1.14	Drivers of Motorized Vehicles Speeding in 2003 Missouri Crashes, Type of Vehicle Driven by Crash Severity .....	26
3.1.15	Drivers of Motorized Vehicles Speeding in 2003 Missouri Crashes, Driver Intoxication by Crash Severity .....	26
3.1.16	2003 Speed-Involved Crashes, County Quartile Analysis .....	27
3.1.17	2003 Speed-Involved Crashes, City Listing .....	29

#### Drinking Involvement

3.2.1	2003 Missouri Traffic Crashes, Drinking Involvement .....	32
3.2.2	2002 and 2003 Drinking-Involved Crash Analysis .....	33
3.2.3	2003 Drinking-Involved Crashes, Crash Type by Crash Severity .....	33
3.2.4	2003 Drinking-Involved Crashes, Area Classification by Crash Severity .....	34
3.2.5	2003 Drinking-Involved Crashes, Road Curvature by Crash Severity .....	34
3.2.6	2003 Drinking-Involved Crashes, Road Incline by Crash Severity .....	34
3.2.7	2003 Drinking-Involved Crashes, Road Conditions by Crash Severity .....	35
3.2.8	2003 Drinking-Involved Crashes, Highway Classification by Crash Severity .....	35
3.2.9	2003 Drinking-Involved Crashes, Highway Classification by Area Classification and Crash Severity .....	36
3.2.10	Persons Drinking in 2003 Missouri Crashes, Person Type and Sex by Crash Severity .....	39

## TABLES

	<b>PAGE</b>
3.2.11 Drivers of Motorized Vehicles Drinking in 2003 Missouri Crashes, Age of Driver by Crash Severity .....	40
3.2.12 Drivers of Non-Motorized Vehicles Drinking in 2003 Missouri Crashes, Age of Driver by Crash Severity .....	41
3.2.13 Pedestrians Drinking in 2003 Missouri Crashes, Age of Pedestrian by Crash Severity .....	42
3.2.14 Drivers of Motorized and Non-Motorized Vehicles Drinking in 2003 Missouri Crashes, Type of Vehicle Driven by Crash Severity .....	43
3.2.15 Drivers of Motorized Vehicles Drinking in 2003 Missouri Crashes, Driver's License State and Type by Crash Severity .....	44
3.2.16 2003 Drinking-Involved Crashes, County Quartile Analysis .....	45
3.2.17 2003 Drinking-Involved Crashes, City Listing .....	47

### **Young Driver Involvement**

3.3.1 2003 Missouri Traffic Crashes, Young Driver Involvement .....	50
3.3.2 2002 and 2003 Young Driver Involved Crash Analysis .....	51
3.3.3 2003 Young Driver Involved Crashes, Crash Type by Crash Severity .....	51
3.3.4 2003 Young Driver Involved Crashes, Area Classification by Crash Severity .....	52
3.3.5 2003 Young Driver Involved Crashes, Road Curvature by Crash Severity .....	52
3.3.6 2003 Young Driver Involved Crashes, Road Incline by Crash Severity .....	52
3.3.7 2003 Young Driver Involved Crashes, Road Conditions by Crash Severity .....	53
3.3.8 2003 Young Driver Involved Crashes, Highway Classification by Crash Severity .....	53
3.3.9 2003 Young Driver Involved Crashes, Highway Classification by Area Classification and Crash Severity .....	54
3.3.10 2003 Missouri Young Driver Crashes, Type of Circumstance Involved by Crash Severity and Person Classification .....	57
3.3.11 Young Drivers in 2003 Missouri Crashes, Sex of Driver by Crash Severity .....	58
3.3.12 Young Drivers in 2003 Missouri Crashes, Age of Driver by Crash Severity .....	58
3.3.13 Young Drivers in 2003 Missouri Crashes, Driver's License State and Type by Crash Severity .....	59
3.3.14 Young Drivers in 2003 Missouri Crashes, Type of Vehicle Driven by Crash Severity .....	60
3.3.15 2003 Young Driver Involved Crashes, County Quartile Analysis .....	61
3.3.16 2003 Young Drinking Driver Involved Crashes, County Quartile Analysis .....	63
3.3.17 2003 Young Driver Involved Crashes, City Listing .....	65

### **Older Driver Involvement**

3.4.1 2003 Missouri Traffic Crashes, Older Driver Involvement .....	68
3.4.2 2002 and 2003 Older Driver Involved Crash Analysis .....	69
3.4.3 2003 Older Driver Involved Crashes, Crash Type by Crash Severity .....	69
3.4.4 2003 Older Driver Involved Crashes, Area Classification by Crash Severity .....	70
3.4.5 2003 Older Driver Involved Crashes, Road Curvature by Crash Severity .....	70
3.4.6 2003 Older Driver Involved Crashes, Road Incline by Crash Severity .....	70
3.4.7 2003 Older Driver Involved Crashes, Road Conditions by Crash Severity .....	71
3.4.8 2003 Older Driver Involved Crashes, Highway Classification by Crash Severity .....	71
3.4.9 2003 Older Driver Involved Crashes, Highway Classification by Area Classification and Crash Severity .....	72
3.4.10 2003 Missouri Older Driver Crashes, Type of Circumstance Involved by Crash Severity and Person Classification .....	75
3.4.11 Older Drivers in 2003 Missouri Crashes, Sex of Driver by Crash Severity .....	76
3.4.12 Older Drivers in 2003 Missouri Crashes, Age of Driver by Crash Severity .....	76

## TABLES

	PAGE
3.4.13 Older Drivers in 2003 Missouri Crashes, Driver's License State and Type by Crash Severity .....	77
3.4.14 Older Drivers in 2003 Missouri Crashes, Type of Vehicle Driven by Crash Severity .....	78
3.4.15 2003 Older Driver Involved Crashes, County Quartile Analysis .....	79
3.4.16 2003 Older Driver Involved Crashes, City Listing .....	81

### **Commercial Motor Vehicle Involvement**

3.5.1 2003 Missouri Traffic Crashes, Commercial Motor Vehicle Involvement .....	84
3.5.2 2002 and 2003 Commercial Motor Vehicle Involved Crash Analysis .....	85
3.5.3 2003 Commercial Motor Vehicle Involved Crashes, Crash Type by Crash Severity .....	85
3.5.4 2003 Commercial Motor Vehicle Involved Crashes, Area Classification by Crash Severity .....	86
3.5.5 2003 Commercial Motor Vehicle Involved Crashes, Road Curvature by Crash Severity .....	86
3.5.6 2003 Commercial Motor Vehicle Involved Crashes, Road Incline by Crash Severity .....	86
3.5.7 2003 Commercial Motor Vehicle Involved Crashes, Road Conditions by Crash Severity .....	87
3.5.8 2003 Commercial Motor Vehicle Involved Crashes, Highway Classification by Crash Severity .....	87
3.5.9 2003 Commercial Motor Vehicle Involved Crashes, Highway Classification by Area Classification and Crash Severity .....	88
3.5.10 2003 Missouri Commercial Motor Vehicle Crashes, Type of Circumstance Involved by Crash Severity and Person Classification .....	91
3.5.11 Commercial Motor Vehicles in 2003 Missouri Crashes, Type of Commercial Motor Vehicle by Crash Severity .....	92
3.5.12 Commercial Motor Vehicles in 2003 Missouri Crashes, Driver Involvement by Crash Severity .....	93
3.5.13 Drivers of Commercial Motor Vehicles in 2003 Missouri Crashes, Sex of Driver by Crash Severity .....	93
3.5.14 Drivers of Commercial Motor Vehicles in 2003 Missouri Crashes, Age of Driver by Crash Severity .....	94
3.5.15 Drivers of Commercial Motor Vehicles in 2003 Missouri Crashes, Driver's License State and Type by Crash Severity .....	95
3.5.16 2003 Commercial Motor Vehicle Involved Crashes, County Quartile Analysis .....	96
3.5.17 2003 Commercial Motor Vehicle Involved Crashes, City Listing .....	98

### **Motorcycle Involvement**

3.6.1 2003 Missouri Traffic Crashes, Motorcycle Involvement .....	102
3.6.2 2002 and 2003 Motorcycle Involved Crash Analysis .....	103
3.6.3 2003 Motorcycle Involved Crashes, Crash Type by Crash Severity .....	103
3.6.4 2003 Motorcycle Involved Crashes, Area Classification by Crash Severity .....	104
3.6.5 2003 Motorcycle Involved Crashes, Road Curvature by Crash Severity .....	104
3.6.6 2003 Motorcycle Involved Crashes, Road Incline by Crash Severity .....	104
3.6.7 2003 Motorcycle Involved Crashes, Road Conditions by Crash Severity .....	105
3.6.8 2003 Motorcycle Involved Crashes, Highway Classification by Crash Severity .....	105
3.6.9 2003 Motorcycle Involved Crashes, Highway Classification by Area Classification and Crash Severity .....	106
3.6.10 2003 Missouri Motorcycle Crashes, Type of Circumstance Involved by Crash Severity and Person Classification .....	109

## TABLES

	<b>PAGE</b>
3.6.11 Motorcycles in 2003 Missouri Crashes, Driver Involvement by Crash Severity .....	110
3.6.12 Drivers of Motorcycles in 2003 Missouri Crashes, Sex of Driver by Crash Severity .....	110
3.6.13 Drivers of Motorcycles in 2003 Missouri Crashes, Age of Driver by Crash Severity .....	111
3.6.14 Drivers of Motorcycles in 2003 Missouri Crashes, Helmet Usage by Personal Injury Severity .....	112
3.6.15 2003 Motorcycle Involved Crashes, County Quartile Analysis .....	113
3.6.16 2003 Motorcycle Involved Crashes, City Listing .....	115

### **School Bus Involvement**

3.7.1 2003 Missouri Traffic Crashes, School Bus Involvement .....	118
3.7.2 Direct School Bus Involvement in 2003 Missouri School Bus Crashes, Status by Crash Severity .....	119
3.7.3 2002 and 2003 School Bus Involved Crash Analysis .....	119
3.7.4 2003 School Bus Involved Crashes, Crash Type by Crash Severity .....	120
3.7.5 2003 School Bus Involved Crashes, Area Classification by Crash Severity .....	120
3.7.6 2003 School Bus Involved Crashes, Road Curvature by Crash Severity .....	121
3.7.7 2003 School Bus Involved Crashes, Road Incline by Crash Severity .....	121
3.7.8 2003 School Bus Involved Crashes, Road Conditions by Crash Severity .....	122
3.7.9 2003 School Bus Involved Crashes, Highway Classification by Crash Severity .....	122
3.7.10 2003 School Bus Involved Crashes, Highway Classification by Area Classification and Crash Severity .....	123
3.7.11 2003 Missouri School Bus Crashes, Type of Circumstance Involved by Crash Severity and Person Classification .....	126
3.7.12 School Buses in 2003 Missouri Crashes, Driver Involvement by Crash Severity .....	127
3.7.13 Drivers of School Buses in 2003 Missouri Crashes, Sex of Driver by Crash Severity .....	127
3.7.14 Drivers of School Buses in 2003 Missouri Crashes, Age of Driver by Crash Severity .....	128
3.7.15 Drivers of School Buses in 2003 Missouri Crashes, Driver's License State and Type by Crash Severity .....	129
3.7.16 2003 School Bus Involved Crashes, County Quartile Analysis .....	130
3.7.17 2003 School Bus Involved Crashes, City Listing .....	132

### **Bicycle Involvement**

3.8.1 2003 Missouri Traffic Crashes, Bicycle Involvement .....	136
3.8.2 2002 and 2003 Bicycle Involved Crash Analysis .....	137
3.8.3 2003 Bicycle Involved Crashes, Area Classification by Crash Severity .....	137
3.8.4 2003 Bicycle Involved Crashes, Road Curvature by Crash Severity .....	137
3.8.5 2003 Bicycle Involved Crashes, Road Incline by Crash Severity .....	138
3.8.6 2003 Bicycle Involved Crashes, Road Conditions by Crash Severity .....	138
3.8.7 2003 Bicycle Involved Crashes, Highway Classification by Crash Severity .....	139
3.8.8 2003 Missouri Bicycle Crashes, Type of Circumstance Involved by Crash Severity and Person Classification .....	142
3.8.9 Bicycles in 2003 Missouri Crashes, Driver Involvement by Crash Severity .....	143
3.8.10 Bicycle Drivers in 2003 Missouri Crashes, Sex of Driver by Crash Severity .....	143
3.8.11 Bicycle Drivers in 2003 Missouri Crashes, Age of Driver by Crash Severity .....	144
3.8.12 2003 Bicycle Involved Crashes, Other Types of Vehicles Involved by Crash Severity .....	145
3.8.13 2003 Bicycle Involved Crashes, County Quartile Analysis .....	146
3.8.14 2003 Bicycle Involved Crashes, City Listing .....	148

## TABLES

	PAGE
<b>Pedestrian Involvement</b>	
3.9.1 2003 Missouri Traffic Crashes, Pedestrian Involvement .....	152
3.9.2 2002 and 2003 Pedestrian Involved Crash Analysis .....	153
3.9.3 2003 Pedestrian Involved Crashes, Area Classification by Crash Severity .....	153
3.9.4 2003 Pedestrian Involved Crashes, Road Curvature by Crash Severity .....	153
3.9.5 2003 Pedestrian Involved Crashes, Road Incline by Crash Severity .....	154
3.9.6 2003 Pedestrian Involved Crashes, Road Conditions by Crash Severity .....	154
3.9.7 2003 Pedestrian Involved Crashes, Highway Classification by Crash Severity .....	155
3.9.8 2003 Pedestrian Involved Crashes, Highway Classification by Area Classification and Crash Severity .....	156
3.9.9 2003 Missouri Pedestrian Crashes, Type of Circumstance Involved by Crash Severity and Person Classification .....	159
3.9.10 Pedestrians in 2003 Missouri Crashes, Sex of Pedestrian by Personal Injury Severity .....	160
3.9.11 Pedestrians in 2003 Missouri Crashes, Age of Pedestrian by Personal Injury Severity .....	160
3.9.12 Pedestrians in 2003 Missouri Crashes, Pedestrian Actions by Age Group .....	161
3.9.13 Drivers of Vehicles Striking Pedestrians in 2003 Missouri Crashes, Sex of Driver by Crash Severity .....	162
3.9.14 Drivers of Vehicles Striking Pedestrians in 2003 Missouri Crashes, Age of Driver by Crash Severity .....	162
3.9.15 Drivers of Vehicles Striking Pedestrians in 2003 Missouri Crashes, Type of Vision Obstruction by Crash Severity .....	163
3.9.16 Drivers of Vehicles Striking Pedestrians in 2003 Missouri Crashes, Type of Vehicle Driven by Crash Severity .....	164
3.9.17 2003 Pedestrian Involved Crashes, County Quartile Analysis .....	165
3.9.18 2003 Pedestrian Involved Crashes, City Listing .....	167
<b>Fixed Object Involvement</b>	
3.10.1 2003 Missouri Traffic Crashes, Fixed Object Involvement .....	170
3.10.2 2002 and 2003 Fixed Object Crash Analysis .....	171
3.10.3 2003 Fixed Object Crashes, Area Classification by Crash Severity .....	171
3.10.4 2003 Fixed Object Crashes, Road Curvature by Crash Severity .....	171
3.10.5 2003 Fixed Object Crashes, Road Incline by Crash Severity .....	172
3.10.6 2003 Fixed Object Crashes, Road Conditions by Crash Severity .....	172
3.10.7 2003 Fixed Object Crashes, Highway Classification by Crash Severity .....	173
3.10.8 2003 Fixed Object Crashes, Highway Classification by Area Classification and Crash Severity .....	174
3.10.9 2003 Fixed Object Crashes, Type of Object Struck by Crash Severity .....	175
3.10.10 2003 Missouri Fixed Object Crashes, Type of Circumstance Involved by Crash Severity and Person Classification .....	178
3.10.11 2003 Missouri Fixed Object Crashes, Type of Vehicle Striking Fixed Object by Crash Severity .....	179
3.10.12 Vehicles Striking Fixed Objects in 2003 Missouri Crashes, Driver Involvement by Crash Severity .....	180
3.10.13 Drivers of Vehicles Striking Fixed Objects in 2003 Missouri Crashes, Sex of Driver by Crash Severity .....	180
3.10.14 Drivers of Vehicles Striking Fixed Objects in 2003 Missouri Crashes, Age of Driver by Crash Severity .....	181
3.10.15 Drivers of Vehicles Striking Fixed Objects in 2003 Missouri Crashes, Driver's License State and Type by Crash Severity .....	182



## TABLES

	PAGE
3.10.16 2003 Fixed Object Involved Crashes, County Quartile Analysis .....	183
3.10.17 2003 Fixed Object Involved Crashes, City Listing .....	185

### **Hazardous Material Involvement**

3.11.1 2003 Missouri Traffic Crashes, Hazardous Material Involvement .....	188
3.11.2 2002 and 2003 Hazardous Material Involved Crash Analysis .....	189
3.11.3 2003 Hazardous Material Involved Crashes, Crash Type by Crash Severity .....	189
3.11.4 2003 Hazardous Material Involved Crashes, Area Classification by Crash Severity .....	190
3.11.5 2003 Hazardous Material Involved Crashes, Road Curvature by Crash Severity .....	190
3.11.6 2003 Hazardous Material Involved Crashes, Road Incline by Crash Severity .....	190
3.11.7 2003 Hazardous Material Involved Crashes, Road Conditions by Crash Severity .....	191
3.11.8 2003 Hazardous Material Involved Crashes, Highway Classification by Crash Severity .....	191
3.11.9 Vehicles Carrying Hazardous Materials in 2003 Missouri Crashes, Type of Vehicle by Crash Severity .....	194
3.11.10 Vehicles Carrying Hazardous Materials in 2003 Missouri Crashes, Type of Hazardous Material Carried by Spillage and Crash Severity .....	194
3.11.11 2003 Missouri Hazardous Material Crashes, Type of Circumstance Involved by Crash Severity and Person Classification .....	195
3.11.12 Vehicles Carrying Hazardous Materials in 2003 Missouri Crashes, Driver Involvement by Crash Severity .....	196
3.11.13 Drivers of Vehicles Carrying Hazardous Materials in 2003 Missouri Crashes, Sex of Driver by Crash Severity .....	196
3.11.14 Drivers of Vehicles Carrying Hazardous Materials in 2003 Missouri Crashes, Age of Driver by Crash Severity .....	197
3.11.15 Drivers of Vehicles Carrying Hazardous Materials in 2003 Missouri Crashes, Driver's License State and Type by Crash Severity .....	198
3.11.16 2003 Hazardous Material Involved Crashes, County Quartile Analysis .....	199
3.11.17 2003 Hazardous Material Involved Crashes, City Listing .....	201

### **Construction / Other Work Zone Involvement**

3.12.1 2003 Missouri Traffic Crashes, Construction / Other Work Zone Involvement .....	204
3.12.2 2002 and 2003 Construction / Other Work Zone Involved Crash Analysis .....	205
3.12.3 2003 Construction / Other Work Zone Involved Crashes, Traffic Control by Crash Severity .....	205
3.12.4 2003 Construction / Other Work Zone Involved Crashes, Crash Type by Crash Severity .....	206
3.12.5 2003 Construction / Other Work Zone Involved Crashes, Area Classification by Crash Severity .....	206
3.12.6 2003 Construction / Other Work Zone Involved Crashes, Road Curvature by Crash Severity .....	207
3.12.7 2003 Construction / Other Work Zone Involved Crashes, Road Incline by Crash Severity ...	207
3.12.8 2003 Construction / Other Work Zone Involved Crashes, Road Conditions by Crash Severity .....	208
3.12.9 2003 Construction / Other Work Zone Involved Crashes, Highway Classification by Crash Severity .....	208
3.12.10 Vehicles Involved in 2003 Missouri Construction / Other Work Zone Crashes, Type of Vehicle by Crash Severity .....	211
3.12.11 2003 Missouri Construction / Other Work Zone Crashes, Type of Circumstance Involved by Crash Severity .....	212

## TABLES

	PAGE
3.12.12 Vehicles in 2003 Missouri Construction / Other Work Zone Crashes, Driver Involvement by Crash Severity .....	213
3.12.13 Drivers of Vehicles in 2003 Missouri Construction / Other Work Zone Crashes, Sex of Driver by Crash Severity .....	213
3.12.14 Drivers of Vehicles in 2003 Missouri Construction / Other Work Zone Crashes, Age of Driver by Crash Severity .....	214
3.12.15 Drivers of Vehicles in 2003 Missouri Construction / Other Work Zone Crashes, Driver's License State and Type by Crash Severity .....	215
3.12.16 2003 Construction / Other Work Zone Involved Crashes, County Quartile Analysis .....	216
3.12.17 2003 Construction / Other Work Zone Involved Crashes, City Listing .....	218

### Seat Belt Usage

3.13.1 2003 Missouri Traffic Crashes, Drivers and Passengers of Automobiles, Trucks, Vans, and Motor Homes, Personal Injury Severity by Seat Belt Usage .....	220
3.13.2 2003 Missouri Traffic Crashes, Drivers of Automobiles, Trucks, Vans, and Motor Homes, Area Classification by Seat Belt Usage .....	221
3.13.3 2003 Missouri Traffic Crashes, Drivers of Automobiles, Trucks, Vans, and Motor Homes, Weather Conditions by Seat Belt Usage .....	221
3.13.4 2003 Missouri Traffic Crashes, Drivers of Automobiles, Trucks, Vans, and Motor Homes, Highway Classification by Seat Belt Usage .....	222
3.13.5 2003 Missouri Traffic Crashes, Drivers of Automobiles, Trucks, Vans, and Motor Homes, Month of Year by Seat Belt Usage .....	223
3.13.6 2003 Missouri Traffic Crashes, Drivers of Automobiles, Trucks, Vans, and Motor Homes, Day of Week by Seat Belt Usage .....	224
3.13.7 2003 Missouri Traffic Crashes, Drivers of Automobiles, Trucks, Vans, and Motor Homes, Hour of Day by Seat Belt Usage .....	225
3.13.8 2003 Missouri Traffic Crashes, Drivers of Automobiles, Trucks, Vans, and Motor Homes, Sex of Driver by Seat Belt Usage .....	226
3.13.9 2003 Missouri Traffic Crashes, Drivers of Automobiles, Trucks, Vans, and Motor Homes, Driver Ejection by Seat Belt Usage .....	226
3.13.10 2003 Missouri Traffic Crashes, Drivers of Automobiles, Trucks, Vans, and Motor Homes, Age of Driver by Seat Belt Usage .....	227
3.13.11 2003 Missouri Traffic Crashes, Drivers of Automobiles, Trucks, Vans, and Motor Homes, Driver's License State and Type by Seat Belt Usage .....	228
3.13.12 2003 Missouri Traffic Crashes, Drivers of Automobiles, Trucks, Vans, and Motor Homes, Type of Vehicle Driven by Seat Belt Usage .....	229
3.13.13 2003 Missouri Traffic Crashes, Drivers of Automobiles, Trucks, Vans, and Motor Homes, Driver Intoxication by Seat Belt Usage .....	229
3.13.14 2003 Missouri Traffic Crashes, Drivers of Automobiles, Trucks, Vans, and Motor Homes, Seat Belt Usage Rates, County Quartile Analysis .....	230
3.13.15 Automobile / Truck / Van / Motor Home Occupants Under the Age of Four Years Killed and Injured in Missouri Traffic Crashes, 1981 - 1983 Average Compared to 1984 - 2002 Average and 2003 .....	233

### MISSOURI COUNTY AND CITY TRAFFIC CRASH ANALYSIS

4.0.1 2003 Missouri Traffic Crashes, County and City Summary .....	237
4.0.2 2003 Missouri Traffic Crashes, Multi-County City Summary .....	275

## FIGURES

	PAGE
<b>MISSOURI TRAFFIC SAFETY PERSONAL INJURY PROBLEM ANALYSIS CLOCK</b>	
1.0.1 Missouri Traffic Safety Personal Injury Problem Analysis Clock, 2003 .....	5
<b>MISSOURI STATEWIDE TRAFFIC SAFETY ANALYSIS</b>	
2.0.1 Missouri Death Rate, Annual Time Series .....	11
2.0.2 Missouri Injury Rate, Annual Time Series .....	11
2.0.3 Missouri Fatal Crashes, Annual Time Series .....	12
2.0.4 Missouri Fatal and Personal Injury Crashes, Annual Time Series .....	12
<b>MISSOURI DETAIL TRAFFIC SAFETY PROBLEM ANALYSIS</b>	
<b>Speed Involvement</b>	
3.1.1 2003 Missouri Speed-Involved Crashes, Month of Year .....	21
3.1.2 2003 Missouri Speed-Involved Crashes, Day of Week .....	21
3.1.3 2003 Missouri Speed-Involved Crashes, Hour of Day .....	22
3.1.4 Missouri Fatal and Personal Injury Speed-Involved Crashes, Annual Time Series .....	30
<b>Drinking Involvement</b>	
3.2.1 2003 Missouri Drinking-Involved Crashes, Month of Year .....	37
3.2.2 2003 Missouri Drinking-Involved Crashes, Day of Week .....	37
3.2.3 2003 Missouri Drinking-Involved Crashes, Hour of Day .....	38
3.2.4 Missouri Fatal and Personal Injury Drinking-Involved Crashes, Annual Time Series .....	48
<b>Young Driver Involvement</b>	
3.3.1 2003 Missouri Young Driver Involved Crashes, Month of Year .....	55
3.3.2 2003 Missouri Young Driver Involved Crashes, Day of Week .....	55
3.3.3 2003 Missouri Young Driver Involved Crashes, Hour of Day .....	56
3.3.4 Missouri Fatal and Personal Injury Young Driver Involved Crashes, Annual Time Series .....	66
<b>Older Driver Involvement</b>	
3.4.1 2003 Missouri Older Driver Involved Crashes, Month of Year .....	73
3.4.2 2003 Missouri Older Driver Involved Crashes, Day of Week .....	73
3.4.3 2003 Missouri Older Driver Involved Crashes, Hour of Day .....	74
3.4.4 Missouri Fatal and Personal Injury Older Driver Involved Crashes, Annual Time Series .....	82
<b>Commercial Motor Vehicle Involvement</b>	
3.5.1 2003 Missouri Commercial Motor Vehicle Involved Crashes, Month of Year .....	89
3.5.2 2003 Missouri Commercial Motor Vehicle Involved Crashes, Day of Week .....	89
3.5.3 2003 Missouri Commercial Motor Vehicle Involved Crashes, Hour of Day .....	90
3.5.4 Missouri Fatal and Personal Injury Commercial Motor Vehicle Involved Crashes, Annual Time Series .....	99

## FIGURES

### PAGE

#### Motorcycle Involvement

3.6.1	2003 Missouri Motorcycle Involved Crashes, Month of Year .....	107
3.6.2	2003 Missouri Motorcycle Involved Crashes, Day of Week .....	107
3.6.3	2003 Missouri Motorcycle Involved Crashes, Hour of Day .....	108
3.6.4	Missouri Fatal and Personal Injury Motorcycle Involved Crashes, Annual Time Series .....	116

#### School Bus Involvement

3.7.1	2003 Missouri School Bus Involved Crashes, Month of Year .....	124
3.7.2	2003 Missouri School Bus Involved Crashes, Day of Week .....	124
3.7.3	2003 Missouri School Bus Involved Crashes, Hour of Day .....	125
3.7.4	Missouri Fatal and Personal Injury School Bus Involved Crashes, Annual Time Series .....	133

#### Bicycle Involvement

3.8.1	2003 Missouri Bicycle Involved Crashes, Month of Year .....	140
3.8.2	2003 Missouri Bicycle Involved Crashes, Day of Week .....	140
3.8.3	2003 Missouri Bicycle Involved Crashes, Hour of Day .....	141
3.8.4	Missouri Fatal and Personal Injury Bicycle Involved Crashes, Annual Time Series .....	149

#### Pedestrian Involvement

3.9.1	2003 Missouri Pedestrian Involved Crashes, Month of Year .....	157
3.9.2	2003 Missouri Pedestrian Involved Crashes, Day of Week .....	157
3.9.3	2003 Missouri Pedestrian Involved Crashes, Hour of Day .....	158
3.9.4	Missouri Fatal and Personal Injury Pedestrian Crashes, Annual Time Series .....	168

#### Fixed Object Involvement

3.10.1	2003 Missouri Fixed Object Crashes, Month of Year .....	176
3.10.2	2003 Missouri Fixed Object Crashes, Day of Week .....	176
3.10.3	2003 Missouri Fixed Object Crashes, Hour of Day .....	177
3.10.4	Missouri Fatal and Personal Injury Fixed Object Crashes, Annual Time Series .....	186

#### Hazardous Material Involvement

3.11.1	2003 Missouri Hazardous Material Involved Crashes, Month of Year .....	192
3.11.2	2003 Missouri Hazardous Material Involved Crashes, Day of Week .....	192
3.11.3	2003 Missouri Hazardous Material Involved Crashes, Hour of Day .....	193

#### Construction / Other Work Zone Involvement

3.12.1	2003 Missouri Construction / Other Work Zone Involved Crashes, Month of Year .....	209
3.12.2	2003 Missouri Construction / Other Work Zone Involved Crashes, Day of Week .....	209
3.12.3	2003 Missouri Construction / Other Work Zone Involved Crashes, Hour of Day .....	210

#### Seat Belt Usage

3.13.1	Percent of Drivers Wearing Seat Belts, Monthly Time Series .....	232
--------	--	-----

## EXECUTIVE SUMMARY

The purpose of this publication is to provide the Missouri State Highway Patrol, the Missouri Department of Transportation, Highway Safety Division, and other State and local authorities with information on Missouri's traffic crash problems. It is one in a series which is being produced annually.

The primary source of data for the Compendium is the Statewide Traffic Accident Records System being maintained by the Missouri State Highway Patrol. Although this publication contains historical data on Missouri's traffic crash and severity experience, emphasis is placed on the most recent year (2003).

In 2003, Missouri had a total of 182,624 traffic crashes. The economic loss associated with these traffic crashes was estimated to be \$3,431,654,000. In these traffic crashes, 0.6% (1,095) involved one or more persons being killed in the incident. In addition, 25.2% (45,966) involved no persons being killed but one or more persons being injured in the incident.

In 2003, a total of 1,232 persons died in Missouri traffic crashes. One person was killed every 7.1 hours. The death rate (the number of deaths per 100 million miles of travel) was 1.8 in 2003. In 2002, the death rate also was 1.8.

A total of 69,121 persons were injured in traffic crashes in 2003. One person was injured every 7.6 minutes.

Data are provided in this Compendium identifying causal factors or characteristics of Missouri's traffic crash experience which directly impact the frequency of occurrence or personal death and injury severity levels. A brief analysis of these factors is given below:

- Speed was found to be a significant contributing factor in Missouri's traffic crash experience especially as it relates to crashes involving death and injury. Of all 2003 Missouri traffic crashes, 18.0% were speed related. Of all fatal crashes, 41.5% were speed related. A total of 505 persons were killed and 16,183 were injured in this type of crash. In 2003, one person was killed or injured every 31.5 minutes in speed related traffic crashes in the State of Missouri.
- Drinking involvement was a significant contributing factor in Missouri's serious traffic crash experience in 2003. Of all 2003 Missouri traffic crashes, 4.6% involved a person drinking. However, of all fatal crashes, 23.2% had a person drinking. A total of 277 persons were killed and 5,454 were injured in these crashes. In 2003, one person was killed or injured in drinking-involved crashes every 1.5 hours in the State. It should be noted that drinking involvement is being under-reported as a causal factor in traffic crashes and is an even greater problem than the above statistics indicate.
- Drivers of motorized vehicles under the age of 21 were involved in a large number of crashes in the State of Missouri. Of all 2003 traffic crashes, 29.9% involved one or more drivers under the age of 21. Of all fatal crashes, 22.6% involved a young driver. Their involvement in Missouri traffic crashes becomes even more significant when it is recognized that drivers under 21 made up only 10.4% of all Missouri's licensed drivers. A total of 288 persons were killed and 21,233 were injured in traffic crashes involving young drivers. In 2003, one person was killed or injured in a young driver involved traffic crash every 24.4 minutes in the State of Missouri.
- Drivers of motorized vehicles 55 years of age and older were involved in a large number of Missouri traffic crashes. Of all 2003 traffic crashes, 27.7% involved an older driver. Of all fatal crashes, 29.3% involved an older driver. A total of 368 persons were killed and 18,290 were injured in these traffic crashes. In 2003, one person was killed or injured in an older driver involved traffic crash every 28.2 minutes in the State of Missouri.
- Commercial motor vehicles were involved in a significant number of Missouri traffic crashes. In 2003, 10.1% of all traffic crashes involved a commercial motor vehicle. When examining fatal traffic crashes, 16.4% involved a commercial motor vehicle. A total of 207 persons were killed and 5,829 were injured

in commercial motor vehicle related crashes. As a result, one person was killed or injured in commercial motor vehicle involved traffic crashes every 1.5 hours in the State.

- Although motorcycle related traffic crashes do not occur in extremely large numbers in the State of Missouri, they usually result in persons (mainly motorcycle drivers and passengers) being either killed or injured. Of all traffic crashes occurring in the State in 2003, 25.8% resulted in a person being killed or injured. However, in motorcycle involved crashes, 81.4% resulted in a death or personal injury. In 2003, 1.0% of all traffic crashes involved a motorcycle. In fatal traffic crashes, 7.4% involved a motorcycle. A total of 91 persons were killed and 1,649 were injured in motorcycle traffic crashes. One person was killed or injured in these crashes every 5.0 hours in the State of Missouri.
- Although school buses are not involved in a large number of traffic crashes in the State of Missouri they are important due to their potential for causing death and injury to young children. Of all 2003 Missouri traffic crashes, 0.8% involved a school bus or school bus signal. Seven people were killed and 669 were injured in these crashes. In 2003, one person was killed or injured in school bus involved traffic crashes every 12.4 hours in the State of Missouri.
- Although bicycle related traffic crashes do not occur in extremely large numbers in the State of Missouri, they usually result in persons (mainly bicycle drivers and passengers) being either killed or injured. Of all traffic crashes occurring in the State in 2003, 25.8% resulted in a person being killed or injured. However, in bicycle traffic crashes, 82.0% resulted in a death or personal injury. In addition, young children account for a large proportion of the bicyclists involved in traffic crashes. The average age of bicycle drivers involved in 2003 traffic crashes was 21.8 years. Of all 2003 Missouri traffic crashes, 0.4% involved a bicycle. Of all fatal traffic crashes, 0.8% were bicycle related. Nine persons were killed and 655 were injured in these traffic crashes. One person was killed or injured in a bicycle traffic crash every 13.2 hours in the State.
- Although pedestrian related traffic crashes do not occur in extremely large numbers in the State of Missouri, they usually result in persons (mainly the pedestrian) being either killed or injured. Of all traffic crashes occurring in the State in 2003, 25.8% resulted in a person being killed or injured. However, in pedestrian traffic crashes, 94.2% resulted in a death or personal injury. In addition, young children and older persons account for a large proportion of the pedestrians killed or injured in these traffic crashes. Of all 2003 Missouri traffic crashes, 0.9% involved a pedestrian. Of all fatal traffic crashes, 7.3% involved a pedestrian. A total of 81 persons were killed and 1,560 were injured in these traffic crashes. One person was killed or injured in a pedestrian traffic crash every 5.3 hours in the State of Missouri.
- Motor vehicles striking fixed objects account for a large number of traffic crashes in the State of Missouri, especially those resulting in death or personal injury. Of all 2003 Missouri traffic crashes, 17.4% involved a fixed object being struck as part of the first harmful event. In fatal crashes, 37.7% involved a fixed object. A total of 449 persons were killed and 14,230 were injured in fixed object traffic crashes. One person was killed or injured every 35.8 minutes in this type of crash in the State.
- Although hazardous materials are not involved in a large number of traffic crashes in the State of Missouri, they are a significant problem because of their potential for causing death, personal injury, and property damage through the release of such materials in the surrounding environment. Of all 2003 traffic crashes, 0.1% involved hazardous materials. Of all fatal traffic crashes, 0.3% were hazardous material related. Three persons were killed and 47 were injured in hazardous material crashes. One person was killed or injured in these crashes every 7.3 days in the State of Missouri.
- Construction / other work zones are not involved in a large number of traffic crashes in the State of Missouri. However, they are considered a significant problem because they are temporary in nature and not found that frequently on the State's roadway network compared to other types of traffic controls. In 2003, 2.4% of all traffic crashes involved a construction / other work zone. When examining fatal traffic crashes, 1.9% were associated with a construction / other work zone. A total of 23 persons were killed and 1,559 were injured in construction / other work zone related traffic crashes. As a result, one person was killed or injured in this type of crash every 5.5 hours.

- The wearing of seat belts by drivers and passengers in vehicles is one of the best ways to prevent death and personal injury when involved in a traffic crash. The State of Missouri has recognized the benefit seat belt usage has on reducing traffic crash deaths and injuries through the passage of infant restraint and adult seat belt laws in recent years. The effectiveness of using seat belts becomes apparent when considering the following statistics. A driver of an automobile, van, motor home, or truck involved in a 2003 Missouri traffic crash had a 1 in 3 chance of being injured if they were not wearing their seat belt. However, if they were wearing a seat belt, their chance of being injured was 1 in 7. When examining driver deaths, the difference is much more dramatic. A driver involved in a 2003 Missouri traffic crash had a 1 in 39 chance of being killed if they were not wearing a seat belt. In those cases where the driver wore a seat belt their chance of being killed was 1 in 1,108.



## INTRODUCTION

This Compendium presents data identifying the scope, magnitude, and severity of the traffic crash problem in Missouri. In addition, data are presented which identify specific traffic crash/severity causative factors and characteristics of special interest to traffic safety authorities. Although historical data are provided, emphasis is placed on the most recent year's experience (2003).

This Compendium was prepared by the Missouri State Highway Patrol, Statistical Analysis Center (SAC) at the request of the Missouri Department of Transportation, Highway Safety Division.

The traffic safety data contained in this publication are segmented into four sections. The first section displays the 2003 Missouri Traffic Safety Personal Injury Problem Analysis Clock. This clock offers an overview of the frequency of deaths and injuries caused by traffic crashes in the State in relation to time. The second section provides data related to Missouri's total traffic crash experience from an historical perspective. In addition, this section provides historical data related to Missouri's driver's licensing, vehicle registration, and annual miles of travel activity levels. The third section presents data on Missouri's traffic crash experience as it relates to specific types of causative factors or characteristics which affect the frequency of occurrence or crash severity. Specific traffic safety problem areas addressed in this section are:

- Speed Involvement
- Drinking Involvement
- Young Driver Involvement
- Older Driver Involvement
- Commercial Motor Vehicle Involvement
- Motorcycle Involvement
- School Bus Involvement
- Bicycle Involvement
- Pedestrian Involvement
- Fixed Object Involvement
- Hazardous Material Involvement
- Construction / Other Work Zone Involvement
- Seat Belt Usage

The last section of the Compendium provides summary data on the 2003 traffic crash experience of all counties and of cities with populations of 1,000 or more in the State of Missouri. In addition, breakouts are provided identifying the proportion of each community's traffic crash activity related to the problem areas discussed in the previous section of the Compendium (Seat Belt Usage is the only exception).

Data for this Compendium were obtained from a variety of sources. Traffic crash data used in the Compendium were obtained from the Statewide Traffic Accident Records System (STARS). This system is maintained by the Missouri State Highway Patrol (MSHP). In accordance with State statute, law enforcement agencies are required to investigate traffic crashes occurring on public roadways if they involve a death or personal injury or property damage over \$500.00. They submit their findings on a standard traffic accident report form to the STARS system. Data from these reports are encoded by MSHP staff in computerized files. These files are made available to the Missouri SAC for traffic safety data analysis purposes.

Driver's licensing data were obtained from the Missouri Department of Revenue (DOR) driver history files. Vehicle registration and annual miles of travel data were obtained from the Missouri Department of Transportation (MoDOT).



Slight discrepancies may be found if comparisons are made with other publications using data from the STARS system. These discrepancies may be a result of updates being made to STARS files between the time the other publications were developed and the time data analysis for this publication was performed. In addition, the STARS database selection logic used to identify a specific traffic crash problem could be different which would result in discrepancies in data display presentations.

Discrepancies also may be found if comparisons are made with MoDOT publications related to State-maintained roadway traffic crash statistics. MoDOT reviews all STARS traffic crash reports individually. If the crash occurs on a State-maintained roadway, the crash location is analyzed and recoded using a sophisticated highway classification and log point referencing system. Because of this review/update process and differences in road type coding definitions, discrepancies may be noted. For obtaining crash statistics on the Missouri State-maintained highway system only, it is recommended reliance be placed on MoDOT publications.

A number of Federal, State, and local information systems besides STARS capture data on some aspect of Missouri's traffic crash experience. One of the most notable is the Fatality Analysis Reporting System (FARS). In this information system, data on all fatal traffic crashes are compiled from a number of different sources and reported to a national repository in Washington, D.C. Although findings using both FARS and STARS data are similar, they do vary greatly when analyzing drinking involvement in traffic crashes. In STARS, reliance is solely based on the investigating officer's opinion that drivers or pedestrians were drinking and their intoxicated condition contributed to the cause of the traffic crash. In FARS, reliance is not only based on the opinion of the investigating officer but also on results of blood alcohol content tests taken on persons killed within a few hours of the crash. By Missouri statute, coroners and medical examiners are required to take these tests and report the results to the FARS unit. Because of this additional reporting mechanism, drinking involved fatal traffic crash statistics using FARS data indicate this causative factor is a much greater problem than comparable statistics based on STARS data. However, it must be recognized FARS data only describe Missouri's fatal traffic crashes while STARS data describe the State's total traffic crash experience on public roadways (except for minor property damage crashes).

A number of other publications, being produced on an annual basis, provide insights into Missouri's traffic crash experience. In cases where the Compendium does not provide all the information required, it is recommended one or more of the following publications be used:

1. *Traffic Crash Facts Booklet* - Missouri State Highway Patrol, Traffic Division.
2. *Missouri Vital Statistics* - State Center for Health Statistics
3. *Missouri State Highway System Traffic Accident Statistics* - Missouri Department of Transportation, Traffic Division.

## **1.0 MISSOURI TRAFFIC SAFETY PERSONAL INJURY PROBLEM ANALYSIS CLOCK**

*THIS CLOCK SUMMARIZES PERSONS KILLED AND INJURED IN TRAFFIC CRASHES IN THE STATE OF MISSOURI DURING 2003 IN RELATION TO TIME. IN ADDITION, IT SUMMARIZES DEATHS AND INJURIES OCCURRING IN TRAFFIC CRASHES WHERE SPECIFIC CAUSAL FACTORS OR CHARACTERISTICS WERE FOUND. FROM THIS PERSPECTIVE AN APPRECIATION OF THE RELATIVE FREQUENCY AND SERIOUSNESS OF THESE FACTORS AND CHARACTERISTICS CAN BE OBTAINED. THIS CLOCK SHOULD BE VIEWED WITH CARE. THIS MODE OF DISPLAY SHOULD NOT BE TAKEN TO IMPLY A REGULARITY IN THE OCCURRENCE OF DEATHS AND INJURIES IN TRAFFIC CRASH ACTIVITY; RATHER, IT REPRESENTS THE ANNUAL RATIO OF DEATHS AND PERSONAL INJURIES TO FIXED TIME INTERVALS.*

MISSOURI TRAFFIC SAFETY PERSONAL INJURY  
PROBLEM ANALYSIS CLOCK

2003

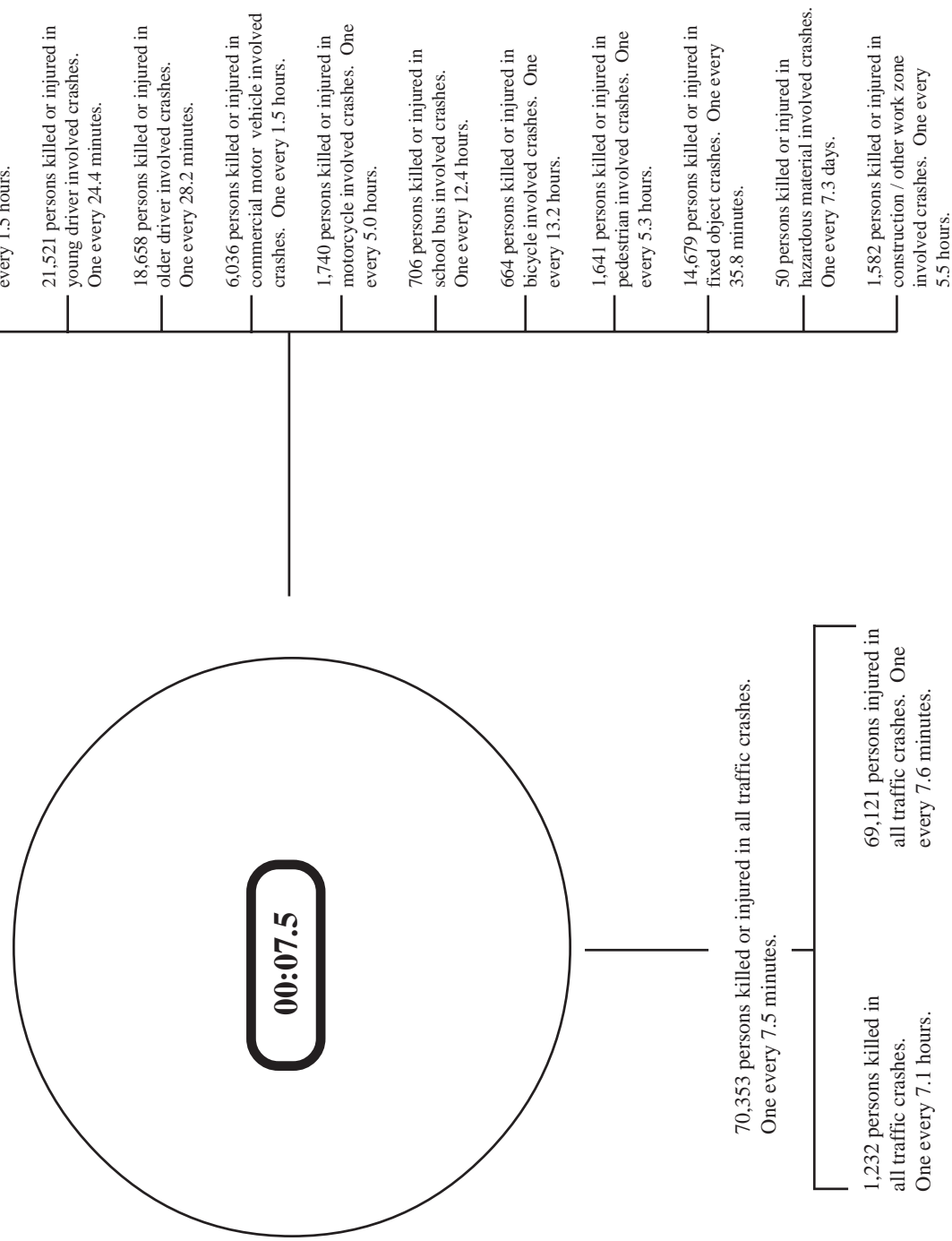


FIGURE 1.0.1

## **2.0 MISSOURI STATEWIDE TRAFFIC SAFETY ANALYSIS**

*A SERIES OF TABLES AND FIGURES SUMMARIZES MISSOURI'S TRAFFIC CRASH EXPERIENCE FROM AN HISTORICAL PERSPECTIVE. IN ADDITION, DATA ARE PRESENTED WHICH IDENTIFY MISSOURI'S DRIVER'S LICENSING, VEHICLE REGISTRATION, AND ANNUAL MILES OF TRAVEL ACTIVITY LEVELS. THE PURPOSE OF THESE DISPLAYS IS TO PROVIDE AN HISTORICAL OVERVIEW OF THE FREQUENCY AND SERIOUSNESS OF MISSOURI'S TRAFFIC CRASH PROBLEM IN RELATION TO THE AMOUNT OF TRAVEL INVOLVED AND TO THE IN-STATE DRIVER AND VEHICLE POPULATION LEVELS.*

# STATE OF MISSOURI, TRAFFIC SAFETY STATISTICS

1979 - 2003

Year	Killed	Injured	Economic Loss	Licensed <sup>1</sup> Drivers	Vehicles <sup>2</sup> Registered	Miles <sup>2</sup> Travelled	Death Rate <sup>3</sup>	Injury Rate <sup>4</sup>
1979	1,162	60,405	712,870,000	3,227,036	3,316,533	34,561,000,000	3.4	178.1
1980	1,191	56,131	755,850,000	3,306,126	3,351,256	33,968,000,000	3.5	168.8
1981	1,056	56,801	720,960,000	3,339,269	3,414,040	34,730,000,000	3.0	166.6
1982	908	53,366	690,500,000	3,352,573	3,486,383	35,003,000,000	2.6	155.1
1983	921	56,412	763,410,000	3,378,247	3,502,219	36,543,000,000	2.5	156.9
1984	991	64,099	887,080,000	3,402,967	3,585,303	38,431,000,000	2.6	169.4
1985	948	66,970	906,980,000	3,415,014	3,635,364	39,286,000,000	2.4	172.9
1986	1,143	69,455	1,100,070,000	3,436,028	3,737,386	41,572,000,000	2.7	169.8
1987	1,058	67,743	1,158,640,000	3,472,027	3,760,948	43,379,000,000	2.4	158.6
1988	1,103	69,321	1,368,710,000	3,511,986	3,835,292	45,447,000,000	2.4	155.0
1989	1,052	68,588	1,352,250,000	3,537,276	3,881,896	48,087,000,000	2.2	144.8
1990	1,097	72,493	1,463,320,000	3,702,692	3,948,319	49,891,000,000	2.2	147.5
1991	1,011	67,707	1,616,100,000	3,445,079	3,987,545	50,676,000,000	2.0	135.6
1992	985	70,550	1,981,940,000	3,454,548	4,039,447	53,108,000,000	1.9	134.7
1993	949	77,521	2,561,332,000	3,499,278	4,097,716	54,821,000,000	1.7	143.1
1994	1,089	81,046	3,068,532,000	3,382,050	4,206,637	57,287,000,000	1.9	143.4
1995	1,109	81,174	3,169,354,000	3,688,225	4,250,708	59,115,000,000	1.9	139.2
1996	1,148	82,717	3,066,403,000	3,797,574	4,381,105	61,007,000,000	1.9	137.5
1997	1,192	81,570	2,951,124,000	3,832,875	4,339,101	62,979,000,000	1.9	131.4
1998	1,169	79,765	3,241,096,000	3,935,879	4,405,307	64,533,000,000	1.8	125.4
1999	1,094	78,297	3,166,768,000	3,983,650	4,429,689	66,856,000,000	1.6	118.7
2000	1,157	76,338	3,239,268,000	4,006,790	4,612,009	66,905,000,000	1.7	115.8
2001	1,098	73,629	3,205,959,000	4,019,869	4,244,980	67,635,000,000	1.6	110.5
2002	1,208	72,614	3,398,527,000	4,118,933	4,413,717	68,162,000,000	1.8	108.3
2003	1,232	69,121	3,431,654,000	4,186,002	4,416,352	67,929,000,000	1.8	103.6

<sup>1</sup>Licensed drivers data were obtained from the Missouri Department of Revenue.

<sup>2</sup>Vehicle registration and miles travelled data were obtained from the Missouri Department of Transportation.

<sup>3</sup>Number of deaths per 100 million miles of vehicle travel.

<sup>4</sup>Number of deaths and injuries per 100 million miles of vehicle travel.

TABLE 2.0.1

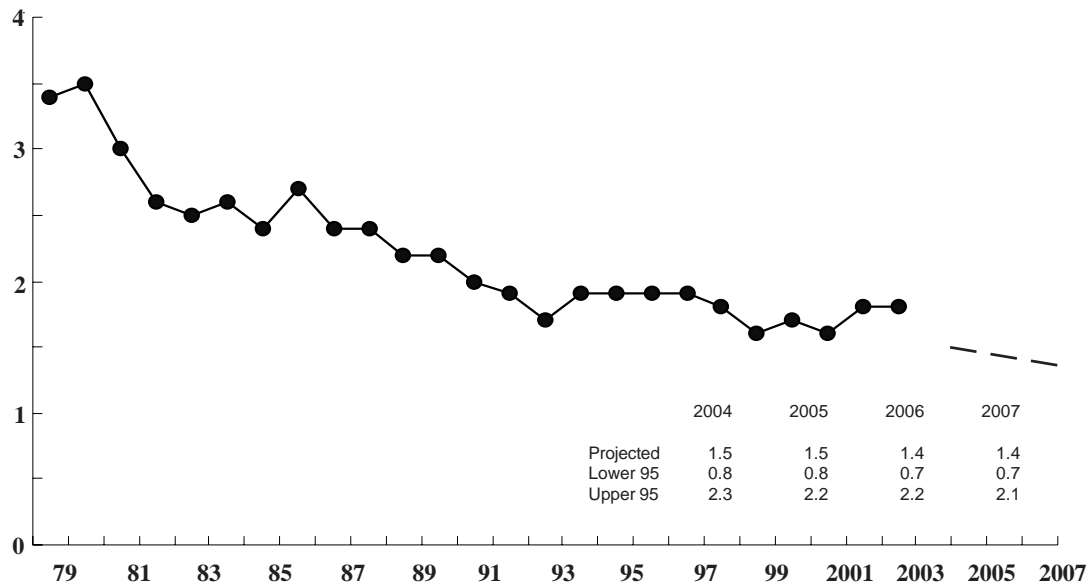
# 1994 - 2003 MISSOURI TRAFFIC CRASHES

## YEAR BY CRASH SEVERITY

YEAR	FATAL		PERSONAL INJURY		PROPERTY DAMAGE		TOTAL	
1994	947		51,045		128,418		180,410	
ROW %		0.5		28.3		71.2		100.0
1995	985		51,987		133,080		186,052	
ROW %		0.5		27.9		71.5		100.0
1996	1,006		52,744		137,470		191,220	
ROW %		0.5		27.6		71.9		100.0
1997	1,029		51,812		139,050		191,891	
ROW %		0.5		27.0		72.5		100.0
1998	1,017		51,215		142,760		194,992	
ROW %		0.5		26.3		73.2		100.0
1999	964		50,610		142,279		193,853	
ROW %		0.5		26.1		73.4		100.0
2000	991		49,722		143,116		193,829	
ROW %		0.5		25.7		73.8		100.0
2001	973		48,325		139,358		188,656	
ROW %		0.5		25.6		73.9		100.0
2002	1,082		47,981		136,743		185,806	
ROW %		0.6		25.8		73.6		100.0
2003	1,095		45,966		135,563		182,624	
ROW %		0.6		25.2		74.2		100.0

**TABLE 2.0.2**

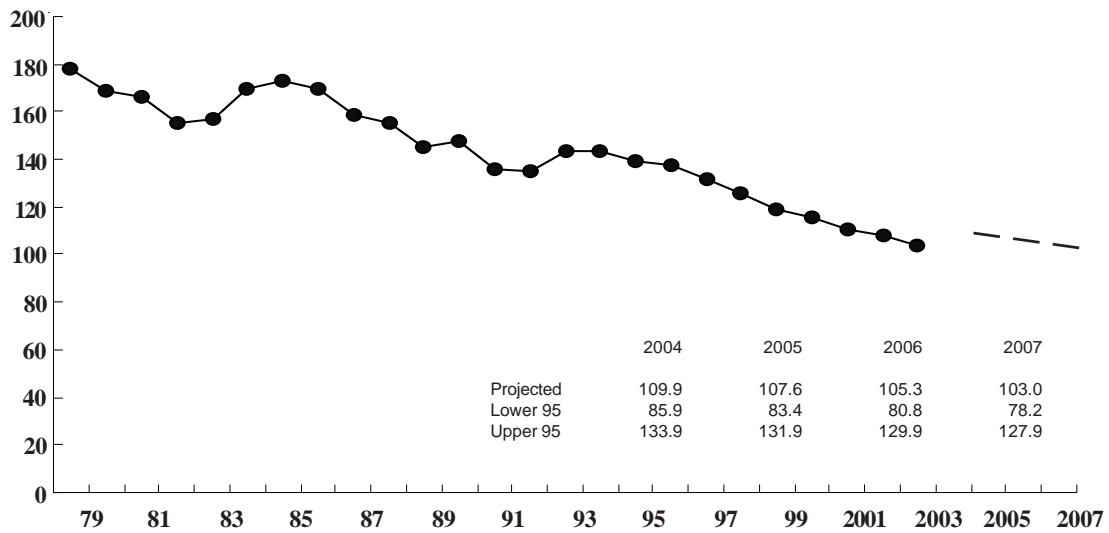
### MISSOURI DEATH RATE<sup>1</sup> ANNUAL TIME SERIES



<sup>1</sup>Number of deaths per 100 million miles of vehicle travel.

**FIGURE 2.0.1**

### MISSOURI INJURY RATE<sup>1</sup> ANNUAL TIME SERIES



<sup>1</sup>Number of deaths and injuries per 100 million miles of vehicle travel.

**FIGURE 2.0.2**

### MISSOURI FATAL CRASHES ANNUAL TIME SERIES

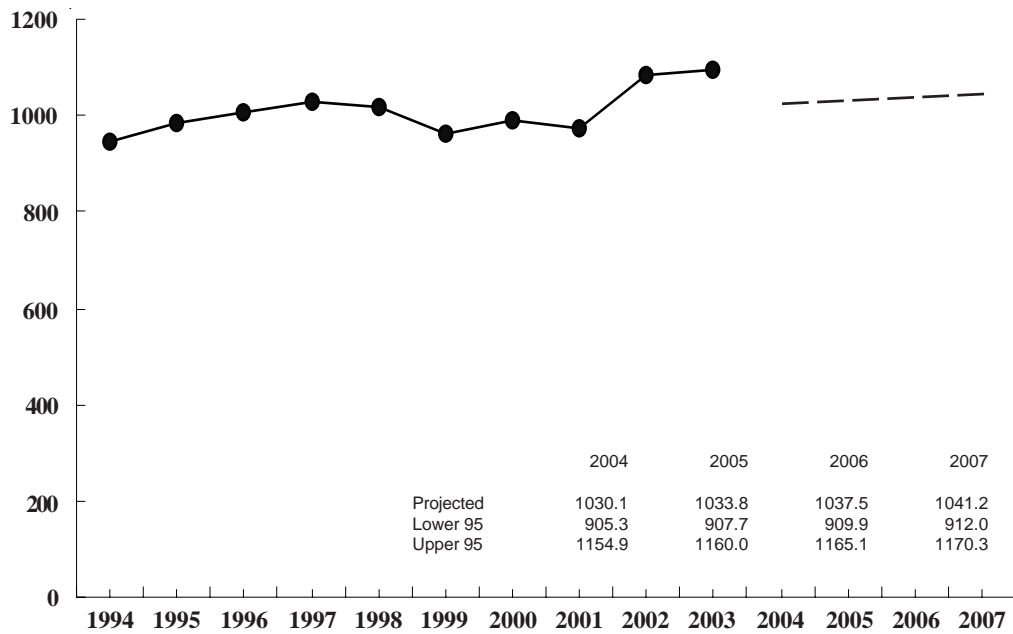


FIGURE 2.0.3

### MISSOURI FATAL AND PERSONAL INJURY CRASHES ANNUAL TIME SERIES

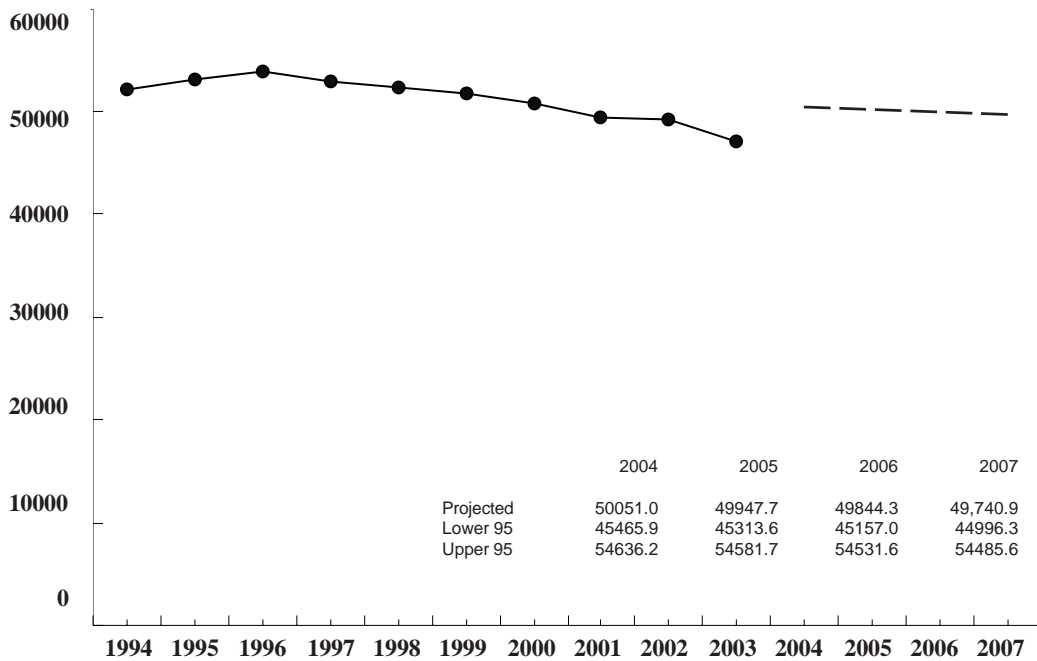


FIGURE 2.0.4



### **3.0 MISSOURI DETAIL TRAFFIC SAFETY PROBLEM ANALYSIS**

*A SERIES OF TABLES AND FIGURES SUMMARIZES MISSOURI'S TRAFFIC CRASH EXPERIENCE AS IT RELATES TO SPECIFIC TYPES OF CAUSATIVE FACTORS OR CHARACTERISTICS WHICH AFFECT THE FREQUENCY OF OCCURRENCE OR THE SEVERITY OF THE CRASH. DETAIL ANALYSIS IS PROVIDED FOR THE FOLLOWING SPECIFIC TYPES :*

- *SPEED INVOLVEMENT*
- *DRINKING INVOLVEMENT*
- *YOUNG DRIVER INVOLVEMENT*
- *OLDER DRIVER INVOLVEMENT*
- *COMMERCIAL MOTOR VEHICLE INVOLVEMENT*
- *MOTORCYCLE INVOLVEMENT*
- *SCHOOL BUS INVOLVEMENT*
- *BICYCLE INVOLVEMENT*
- *PEDESTRIAN INVOLVEMENT*
- *FIXED OBJECT INVOLVEMENT*
- *HAZARDOUS MATERIAL INVOLVEMENT*
- *CONSTRUCTION / OTHER WORK ZONE INVOLVEMENT*
- *SEAT BELT USAGE*

### 3.1 SPEED INVOLVEMENT

***This section presents a series of data displays which identify speed involvement in Missouri's traffic crash experience. Speed-involved traffic crashes are defined as any crash in which one or more drivers of motorized vehicles were exceeding the speed limit or driving too fast for conditions and, in the opinion of the investigating law enforcement officer, the driver error contributed to the cause of the crash. Data displays also are presented which identify characteristics of the speeding driver in these traffic crashes.***

#### 2003 SUMMARY ANALYSIS

- Of all 2003 Missouri traffic crashes, 18.0% were speed related. Of all fatal traffic crashes, 41.5% were speed related. A total of 505 persons were killed and 16,183 were injured in speed-related traffic crashes.
- There was an increase of 0.1% in the rate of change when comparing total 2003 speed-related crashes with those in 2002. There was an increase of 4.4% when comparing 2003 fatal speed-related traffic crashes with 2002.
- In 2003, one person was killed or injured in a speed-related traffic crash every 31.5 minutes in the State of Missouri.
- Of all 2003 speed-related traffic crashes, the first harmful event in 42.1% of the incidents involved one motor vehicle in transport striking another motor vehicle in transport. In 44.4% of the cases, the first harmful event involved a motor vehicle striking a fixed object. Of all fatal speed-related traffic crashes, 54.1% involved a motor vehicle striking a fixed object.
- Of all 2003 speed-related traffic crashes, 50.9% occurred in urban areas of the State and 49.1% occurred in rural areas. However, 76.7% of the fatal speed-related traffic crashes occurred in a rural area.
- Of the speeding drivers in traffic crashes, 64.5% were male and 35.5% were female. The average age of speeding drivers was 30.9 years.
- Of the speeding drivers, 84.1% had a Missouri driver's license, 10.3% had an out-of-state driver's license, and 5.6% were unlicensed at the time of the traffic crash.
- Of the speeding drivers, 59.0% were driving an automobile and 19.3% were driving a pickup truck at the time of the crash.
- Of the speeding drivers in fatal traffic crashes, 30.8% had been drinking or had taken drugs which also contributed to the cause of the fatal traffic crash.

## 2003 MISSOURI TRAFFIC CRASHES

### SPEED INVOLVEMENT

	FATAL	%	PERSONAL INJURY	%	PROPERTY DAMAGE	%	TOTAL	%	TOTAL KILLED	TOTAL NUMBER <sup>1</sup> INJURED	SPEEDING DRIVERS <sup>2</sup> KILLED	INJURED
SPEED INVOLVED	447	41.5	10,682	23.6	20,514	15.8	31,643	18.0	505	16,183	333	7,781
NO SPEED INVOLVED	630	58.5	34,617	76.4	108,956	84.2	144,203	82.0	707	51,987	-	-
UNKNOWN <sup>3</sup>	18	-	667	-	6,093	-	6,778	-	20	951	-	-
<b>TOTAL</b>	<b>1,095</b>	<b>100.0</b>	<b>45,966</b>	<b>100.0</b>	<b>135,563</b>	<b>100.0</b>	<b>182,624</b>	<b>100.0</b>	<b>1,232</b>	<b>69,121</b>	<b>333</b>	<b>7,781</b>

<sup>1</sup>This statistic indicates the total number of persons killed and injured in a crash where one or more drivers of motorized vehicles were speeding.

<sup>2</sup>This statistic indicates the number of speeding drivers killed and injured in motorized vehicles.

<sup>3</sup>Crashes were classified as unknown if there was no indication that speed was involved and the contributing circumstances of one or more drivers were not known.

**TABLE 3.1.1**

### 2002 and 2003 SPEED-INVOLVED CRASH ANALYSIS

	2002	2003	RATE OF CHANGE
FATAL	428	447	+ 4.4
PERSONAL INJURY	11,039	10,682	- 3.2
PROPERTY DAMAGE	20,129	20,514	+ 1.9
TOTAL	31,596	31,643	+ 0.1

**TABLE 3.1.2**

### 2003 SPEED-INVOLVED CRASHES

#### CRASH TYPE BY CRASH SEVERITY

	FATAL	%	PERSONAL INJURY	%	PROPERTY DAMAGE	%	TOTAL	%
ANIMAL	0	0.0	15	0.1	28	0.1	43	0.1
BICYCLIST	2	0.5	23	0.2	1	0.0	26	0.1
FIXED OBJECT	242	54.1	4,959	46.4	8,846	43.1	14,047	44.4
OTHER OBJECT	2	0.5	46	0.4	135	0.7	183	0.6
PEDESTRIAN	11	2.5	76	0.7	0	0.0	87	0.3
TRAIN	0	0.0	3	0.0	1	0.0	4	0.0
VEHICLE IN TRANSPORT	102	22.8	4,142	38.8	9,081	44.3	13,325	42.1
VEHICLE ON OTHER ROADWAY	15	3.4	65	0.6	44	0.2	124	0.4
PARKED VEHICLE	8	1.8	199	1.9	1,391	6.8	1,598	5.1
NONCOLLISION OVERTURN	64	14.3	1,088	10.2	790	3.9	1,942	6.1
NONCOLLISION OTHER	1	0.2	66	0.6	197	1.0	264	0.8
<b>TOTAL</b>	<b>447</b>	<b>100.0</b>	<b>10,682</b>	<b>100.0</b>	<b>20,514</b>	<b>100.0</b>	<b>31,643</b>	<b>100.0</b>

**TABLE 3.1.3**

## 2003 SPEED-INVOLVED CRASHES

### AREA CLASSIFICATION BY CRASH SEVERITY

	FATAL	%	PERSONAL INJURY	%	PROPERTY DAMAGE	%	TOTAL	%
URBAN	104	23.3	4,598	43.0	11,388	55.5	16,090	50.9
RURAL	343	76.7	6,084	57.0	9,126	44.5	15,553	49.1
<b>TOTAL</b>	447	100.0	10,682	100.0	20,514	100.0	31,643	100.0

**TABLE 3.1.4**

## 2003 SPEED-INVOLVED CRASHES

### ROAD CURVATURE BY CRASH SEVERITY

	FATAL	%	PERSONAL INJURY	%	PROPERTY DAMAGE	%	TOTAL	%
STRAIGHT	223	50.0	6,788	64.0	14,147	71.4	21,158	68.5
CURVE	223	50.0	3,820	36.0	5,663	28.6	9,706	31.5
UNKNOWN	1	-	74	-	704	-	779	-
<b>TOTAL</b>	447	100.0	10,682	100.0	20,514	100.0	31,643	100.0

**TABLE 3.1.5**

## 2003 SPEED-INVOLVED CRASHES

### ROAD INCLINE BY CRASH SEVERITY

	FATAL	%	PERSONAL INJURY	%	PROPERTY DAMAGE	%	TOTAL	%
LEVEL	185	41.5	5,739	54.3	11,949	60.6	17,873	58.2
HILL	247	55.4	4,447	42.1	7,141	36.2	11,835	38.5
CREST	14	3.1	385	3.6	631	3.2	1,030	3.3
UNKNOWN	1	-	111	-	793	-	905	-
<b>TOTAL</b>	447	100.0	10,682	100.0	20,514	100.0	31,643	100.0

**TABLE 3.1.6**

## 2003 SPEED-INVOLVED CRASHES

### ROAD CONDITIONS BY CRASH SEVERITY

	FATAL	%	PERSONAL INJURY	%	PROPERTY DAMAGE	%	TOTAL	%
DRY	331	74.7	5,735	54.0	8,002	39.2	14,068	44.7
WET	85	19.2	3,473	32.7	7,850	38.5	11,408	36.3
SNOW	17	3.8	933	8.8	3,218	15.8	4,168	13.3
ICE	10	2.3	392	3.7	1,077	5.3	1,479	4.7
SLUSH	0	0.0	54	0.5	179	0.9	233	0.7
MUD	0	0.0	7	0.1	21	0.1	28	0.1
STANDING WATER	0	0.0	17	0.2	35	0.2	52	0.2
MOVING WATER	0	0.0	4	0.0	16	0.1	20	0.1
UNKNOWN	4	-	67	-	116	-	187	-
<b>TOTAL</b>	447	100.0	10,682	100.0	20,514	100.0	31,643	100.0

**TABLE 3.1.7**

## 2003 SPEED-INVOLVED CRASHES

### HIGHWAY CLASSIFICATION BY CRASH SEVERITY

	FATAL	%	PERSONAL INJURY	%	PROPERTY DAMAGE	%	TOTAL	%
INTERSTATE	57	12.8	1,592	14.9	3,284	16.0	4,933	15.6
U.S. HIGHWAY	49	11.0	1,071	10.0	1,791	8.7	2,911	9.2
STATE NUMBERED	87	19.5	1,685	15.8	2,751	13.4	4,523	14.3
SINGLE STATE LETTERED	63	14.1	1,197	11.2	1,304	6.4	2,564	8.1
DOUBLE STATE LETTERED	41	9.2	478	4.5	559	2.7	1,078	3.4
OUTER ROAD	7	1.6	67	0.6	136	0.7	210	0.7
COUNTY ROAD	64	14.3	1,801	16.9	2,849	13.9	4,714	14.9
CITY STREET	73	16.3	2,591	24.3	7,232	35.3	9,896	31.3
INTERSTATE LOOP	1	0.2	27	0.3	44	0.2	72	0.2
OTHER <sup>1</sup>	5	1.1	173	1.6	564	2.8	742	2.3
<b>TOTAL</b>	447	100.0	10,682	100.0	20,514	100.0	31,643	100.0

<sup>1</sup> "Other" includes types of roads that are maintained by the State as well as by local jurisdictions.

**TABLE 3.1.8**

# 2003 SPEED-INVOLVED CRASHES

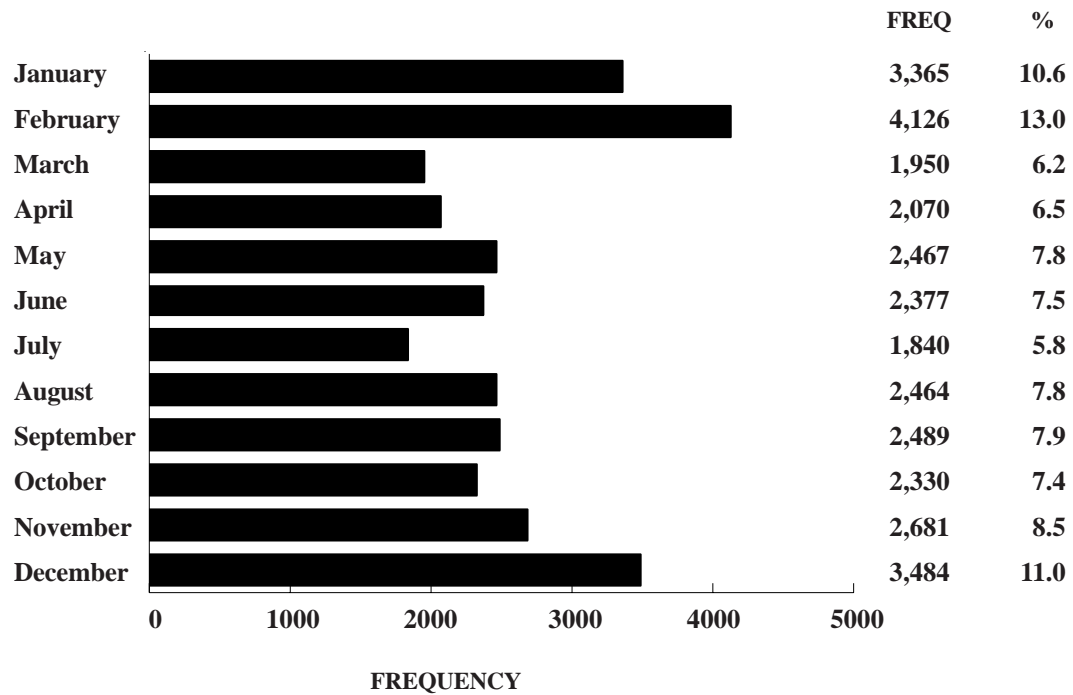
## HIGHWAY CLASSIFICATION BY AREA CLASSIFICATION AND CRASH SEVERITY

	URBAN								RURAL							
	FATAL	%	PERSONAL INJURY	%	PROPERTY DAMAGE	%	TOTAL	%	FATAL	%	PERSONAL INJURY	%	PROPERTY DAMAGE	%	TOTAL	%
INTERSTATE	18	17.3	971	21.1	1,916	16.8	2,905	18.1	39	11.4	621	10.2	1,368	15.0	2,028	13.0
U.S. HIGHWAY	9	8.7	411	8.9	790	6.9	1,210	7.5	40	11.7	660	10.9	1,001	11.0	1,701	10.9
STATE NUMBERED	7	6.7	428	9.3	965	8.5	1,400	8.7	80	23.3	1,257	20.7	1,786	19.6	3,123	20.1
SINGLE STATE LETTERED	1	1.0	93	2.0	186	1.6	280	1.7	62	18.1	1,104	18.2	1,118	12.3	2,284	14.7
DOUBLE STATE LETTERED	0	0.0	42	0.9	89	0.8	131	0.8	41	12.0	436	7.2	470	5.2	947	6.1
OUTER ROAD	1	1.0	35	0.8	71	0.6	107	0.7	6	1.8	32	0.5	65	0.7	103	0.7
COUNTY ROAD	2	1.9	132	2.9	331	2.9	465	2.9	62	18.1	1,669	27.4	2,518	27.6	4,249	27.3
CITY STREET	65	62.5	2,335	50.8	6,579	57.8	8,979	55.8	8	2.3	256	4.2	653	7.2	917	5.9
INTERSTATE LOOP	0	0.0	23	0.5	31	0.3	54	0.3	1	0.3	4	0.1	13	0.1	18	0.1
OTHER¹	1	1.0	128	2.8	430	3.8	559	3.5	4	1.2	45	0.7	134	1.5	183	1.2
TOTAL	104	100.0	4,598	100.0	11,388	100.0	16,090	100.0	343	100.0	6,084	100.0	9,126	100.0	15,553	100.0

<sup>1</sup> "Other" includes types of roads that are maintained by the State as well as by local jurisdictions.

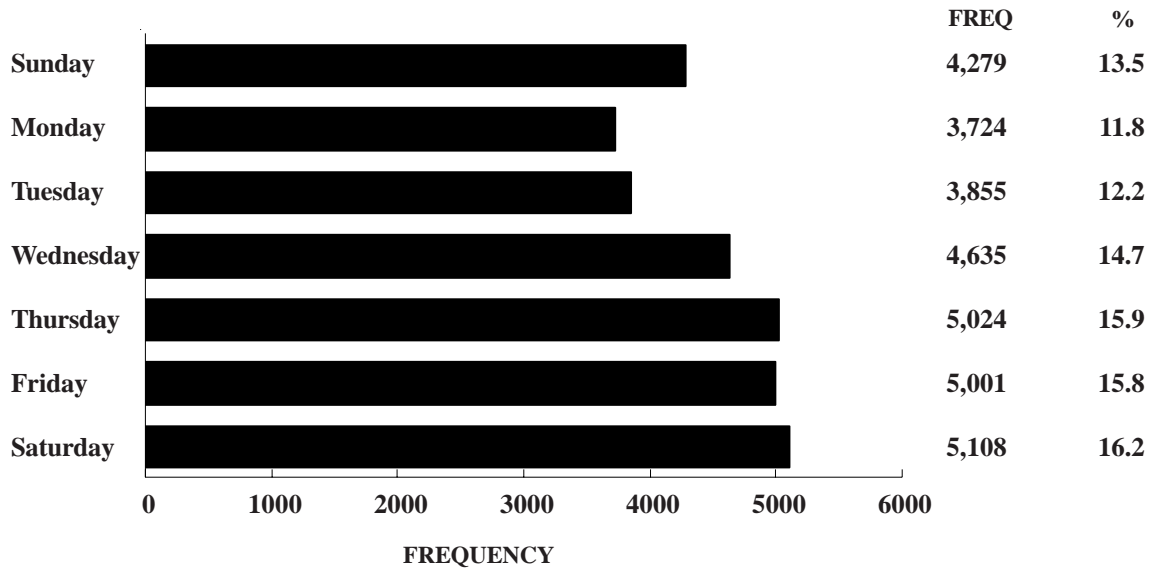
**TABLE 3.1.9**

**2003 MISSOURI SPEED-INVOLVED CRASHES  
MONTH OF YEAR**



**FIGURE 3.1.1**

**2003 MISSOURI SPEED-INVOLVED CRASHES  
DAY OF WEEK**

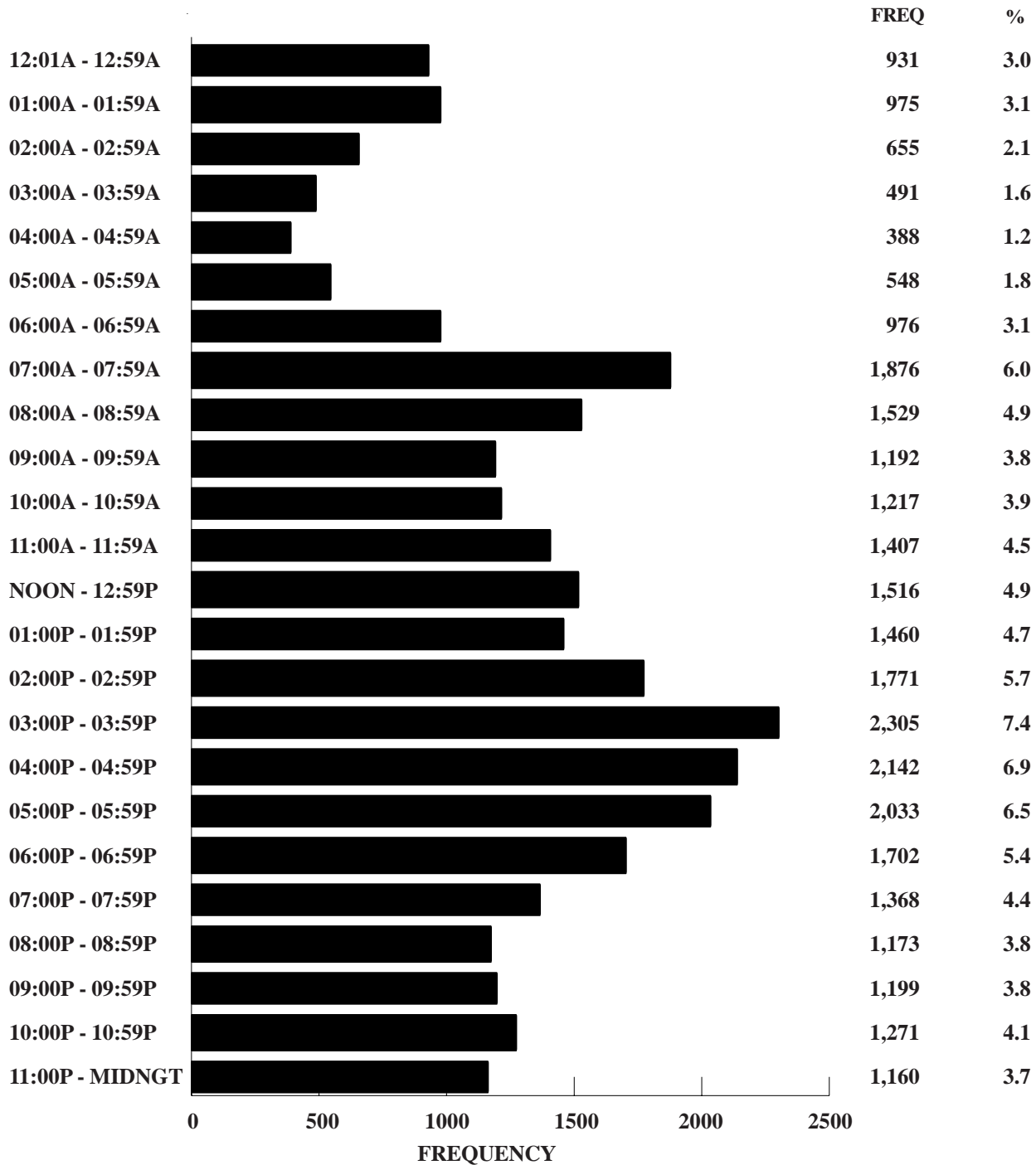


Unknown Data Not Included

**FIGURE 3.1.2**



**2003 MISSOURI SPEED-INVOLVED CRASHES  
HOUR OF DAY**



Unknown Data Not Included

**FIGURE 3.1.3**

# DRIVERS OF MOTORIZED VEHICLES SPEEDING IN 2003 MISSOURI CRASHES

## TYPE OF SPEEDING VIOLATION

	FATAL	%	PERSONAL INJURY	%	PROPERTY DAMAGE	%	TOTAL	%
EXCEEDING SPEED LIMIT	161	35.5	1,598	14.7	2,250	10.7	4,009	12.4
TOO FAST FOR CONDITIONS	266	58.6	8,877	81.7	18,116	86.5	27,259	84.5
EXCEEDING SPEED LIMIT AND TOO FAST FOR CONDITIONS	27	5.9	387	3.6	574	2.7	988	3.1
<b>TOTAL</b>	454	100.0	10,862	100.0	20,940	100.0	32,256	100.0

**TABLE 3.1.10**

# DRIVERS OF MOTORIZED VEHICLES SPEEDING IN 2003 MISSOURI CRASHES

## SEX OF DRIVER BY CRASH SEVERITY

	FATAL	%	PERSONAL INJURY	%	PROPERTY DAMAGE	%	TOTAL	%
MALE	350	78.8	6,664	63.2	11,636	65.0	18,650	64.5
FEMALE	94	21.2	3,881	36.8	6,273	35.0	10,248	35.5
UNKNOWN	10	-	317	-	3,031	-	3,358	-
<b>TOTAL</b>	454	100.0	10,862	100.0	20,940	100.0	32,256	100.0

**TABLE 3.1.11**

## DRIVERS OF MOTORIZED VEHICLES SPEEDING IN 2003 MISSOURI CRASHES

### AGE OF DRIVER BY CRASH SEVERITY

	FATAL	%	PERSONAL INJURY	%	PROPERTY DAMAGE	%	TOTAL	%
<b>AVERAGE AGE OF DRIVER</b>	32.1	-	30.9	-	30.8	-	30.9	-
14 YEARS AND UNDER	5	1.1	40	0.4	50	0.3	95	0.3
15 - 20 YEARS	114	25.7	3,253	31.2	5,623	31.6	8,990	31.4
21 - 25 YEARS	87	19.6	1,819	17.5	3,097	17.4	5,003	17.5
26 - 30 YEARS	40	9.0	1,130	10.9	1,857	10.4	3,027	10.6
31 - 35 YEARS	35	7.9	916	8.8	1,591	9.0	2,542	8.9
36 - 40 YEARS	44	9.9	762	7.3	1,380	7.8	2,186	7.6
41 - 45 YEARS	38	8.6	726	7.0	1,290	7.3	2,054	7.2
46 - 50 YEARS	34	7.7	562	5.4	964	5.4	1,560	5.5
51 - 55 YEARS	13	2.9	398	3.8	684	3.9	1,095	3.8
56 - 60 YEARS	8	1.8	290	2.8	454	2.6	752	2.6
61 - 65 YEARS	8	1.8	177	1.7	284	1.6	469	1.6
66 YEARS AND OVER	17	3.8	341	3.3	509	2.9	867	3.0
UNKNOWN	11	-	448	-	3,157	-	3,616	-
<b>TOTAL</b>	454	100.0	10,862	100.0	20,940	100.0	32,256	100.0

**TABLE 3.1.12**

**DRIVERS OF MOTORIZED VEHICLES SPEEDING IN 2003 MISSOURI CRASHES**

**DRIVER'S LICENSE STATE AND TYPE BY CRASH SEVERITY**

	<b>FATAL</b>	<b>%</b>	<b>PERSONAL INJURY</b>	<b>%</b>	<b>PROPERTY DAMAGE</b>	<b>%</b>	<b>TOTAL</b>	<b>%</b>
<b>MISSOURI</b>								
LEARNER'S PERMIT	5	1.2	98	1.0	116	0.7	219	0.8
OPERATOR'S LICENSE	294	67.6	7,992	77.9	13,671	79.5	21,957	78.7
MOTORCYCLE ONLY	0	0.0	1	0.0	0	0.0	1	0.0
COMMERCIAL DRIVER'S LICENSE	24	5.5	487	4.8	758	4.4	1,269	4.6
SUBTOTAL	323	74.3	8,578	83.6	14,545	84.6	23,446	84.1
<b>OUT STATE</b>								
LEARNER'S PERMIT	1	0.2	5	0.1	5	0.0	11	0.0
OPERATOR'S LICENSE	38	8.7	820	8.0	1,610	9.4	2,468	8.9
MOTORCYCLE ONLY	0	0.0	0	0.0	1	0.0	1	0.0
COMMERCIAL DRIVER'S LICENSE	9	2.1	129	1.3	258	1.5	396	1.4
SUBTOTAL	48	11.0	954	9.3	1,874	10.9	2,876	10.3
UNLICENSED	64	14.7	731	7.1	768	4.5	1,563	5.6
UNKNOWN	19	-	599	-	3,753	-	4,371	-
<b>TOTAL</b>	<b>454</b>	<b>100.0</b>	<b>10,862</b>	<b>100.0</b>	<b>20,940</b>	<b>100.0</b>	<b>32,256</b>	<b>100.0</b>

**TABLE 3.1.13**

## DRIVERS OF MOTORIZED VEHICLES SPEEDING IN 2003 MISSOURI CRASHES

### TYPE OF VEHICLE DRIVEN BY CRASH SEVERITY

	FATAL	%	PERSONAL INJURY	%	PROPERTY DAMAGE	%	TOTAL	%
AUTOMOBILE	220	48.7	6,140	56.6	12,428	60.5	18,788	59.0
SPORT UTILITY VEHICLE	52	11.5	1,321	12.2	2,464	12.0	3,837	12.1
LIMOUSINE	0	0.0	2	0.0	2	0.0	4	0.0
VAN	17	3.8	448	4.1	975	4.8	1,440	4.5
BUS	0	0.0	5	0.1	22	0.1	27	0.1
SCHOOL BUS	0	0.0	11	0.1	26	0.1	37	0.1
MOTORCYCLE	44	9.7	422	3.9	48	0.2	514	1.6
MOPED	0	0.0	9	0.1	1	0.0	10	0.0
MOTOR HOME / CAMPER	0	0.0	2	0.0	9	0.0	11	0.0
FARM EQUIPMENT	0	0.0	3	0.0	1	0.0	4	0.0
CONSTRUCTION EQUIPMENT	0	0.0	0	0.0	2	0.0	2	0.0
OTHER TRANSPORT DEVICE	1	0.2	7	0.1	7	0.0	15	0.1
PICKUP TRUCK	92	20.4	2,113	19.5	3,940	19.2	6,145	19.3
OTHER TRUCKS	16	3.5	310	2.9	604	2.9	930	2.9
ALL TERRAIN VEHICLE	10	2.2	51	0.5	7	0.0	68	0.2
UNKNOWN	2	-	18	-	404	-	424	-
<b>TOTAL</b>	454	100.0	10,862	100.0	20,940	100.0	32,256	100.0

**TABLE 3.1.14**

## DRIVERS OF MOTORIZED VEHICLES SPEEDING IN 2003 MISSOURI CRASHES

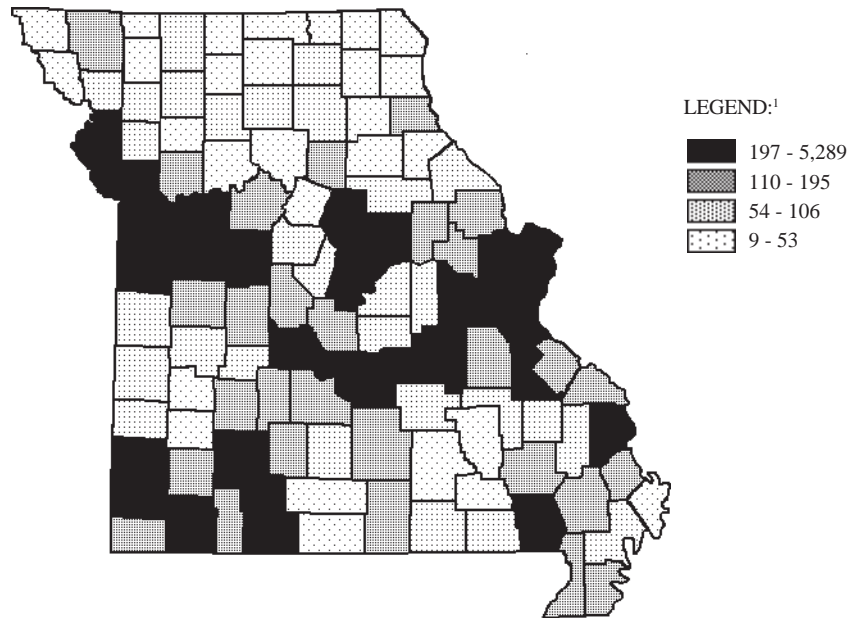
### DRIVER INTOXICATION BY CRASH SEVERITY

	FATAL	%	PERSONAL INJURY	%	PROPERTY DAMAGE	%	TOTAL	%
DRINKING	130	28.6	1,198	11.0	1,046	5.0	2,374	7.4
USING DRUGS	3	0.7	68	0.6	42	0.2	113	0.4
DRINKING AND USING DRUGS	7	1.5	74	0.7	45	0.2	126	0.4
NOT DRINKING OR USING DRUGS / USE UNKNOWN	314	69.2	9,522	87.7	19,807	94.6	29,643	91.9
<b>TOTAL</b>	454	100.0	10,862	100.0	20,940	100.0	32,256	100.0

**TABLE 3.1.15**

## 2003 SPEED-INVOLVED CRASHES

### COUNTY QUARTILE ANALYSIS



<sup>1</sup>LEGEND CATEGORIES ARE BASED ON QUARTILES OF COUNTIES.

RANK	COUNTY	FREQUENCY	PERCENT	RANK	COUNTY	FREQUENCY	PERCENT
1.0	ST. LOUIS	5,289	16.7	22.0	COLE	251	0.8
2.0	JACKSON	4,575	14.5	23.0	BARRY	248	0.8
3.0	ST. LOUIS CITY	2,207	7.0	24.0	NEWTON	241	0.8
4.0	ST. CHARLES	1,401	4.4	25.0	PULASKI	223	0.7
5.0	JEFFERSON	1,372	4.3	26.0	LAFAYETTE	215	0.7
6.0	GREENE	1,137	3.6	27.0	BUTLER	214	0.7
7.0	CLAY	990	3.1	28.0	CRAWFORD	201	0.6
8.0	FRANKLIN	824	2.6	29.0	CAMDEN	197	0.6
9.0	BOONE	599	1.9	First Quartile			
10.0	PLATTE	480	1.5	Second Quartile			
11.0	JASPER	414	1.3	30.0	LINCOLN	195	0.6
12.0	BUCHANAN	412	1.3	31.0	STONE	186	0.6
13.0	TANEY	389	1.2	32.0	HOWELL	184	0.6
14.0	CASS	377	1.2	33.0	WEBSTER	181	0.6
15.0	CAPE GIRARDEAU	366	1.2	34.0	MONTGOMERY	178	0.6
16.0	ST. FRANCOIS	327	1.0	35.0	MARION	175	0.6
17.5	JOHNSON	300	0.9	36.0	LACLEDE	172	0.5
17.5	PHELPS	300	0.9	37.0	SCOTT	170	0.5
19.0	CALLAWAY	263	0.8	38.0	MILLER	168	0.5
20.0	PETTIS	257	0.8	39.0	MORGAN	167	0.5
21.0	CHRISTIAN	253	0.8				

RANK	COUNTY	FREQUENCY	PERCENT	RANK	COUNTY	FREQUENCY	PERCENT
40.0	WARREN	165	0.5	77.5	PIKE	61	0.2
41.0	MC DONALD	162	0.5	79.0	IRON	60	0.2
42.0	POLK	155	0.5	80.0	ADAIR	59	0.2
43.0	LAWRENCE	152	0.5	82.0	HICKORY	57	0.2
44.0	TEXAS	140	0.4	82.0	LINN	57	0.2
45.0	PERRY	138	0.4	82.0	ST. CLAIR	57	0.2
46.0	RAY	137	0.4	84.5	MADISON	56	0.2
47.0	DALLAS	134	0.4	84.5	OREGON	56	0.2
48.5	HENRY	130	0.4	86.5	BARTON	54	0.2
48.5	WASHINGTON	130	0.4	86.5	DE KALB	54	0.2
50.0	STE. GENEVIEVE	126	0.4	Third Quartile			
51.5	PEMISCOT	123	0.4	Fourth Quartile			
51.5	STODDARD	123	0.4	88.5	DOUGLAS	53	0.2
53.0	BENTON	118	0.4	88.5	MISSISSIPPI	53	0.2
54.0	RANDOLPH	115	0.4	90.0	RALLS	51	0.2
55.5	DUNKLIN	113	0.4	91.0	GRUNDY	50	0.2
55.5	WAYNE	113	0.4	92.0	LEWIS	49	0.2
57.0	NODAWAY	111	0.4	93.0	REYNOLDS	46	0.1
58.0	SALINE	110	0.3	94.0	HOWARD	45	0.1
Second Quartile				95.0	MONROE	44	0.1
Third Quartile				96.0	SHANNON	43	0.1
59.0	VERNON	106	0.3	97.5	CALDWELL	42	0.1
60.0	AUDRAIN	97	0.3	97.5	CARTER	42	0.1
61.0	GASCONADE	96	0.3	99.5	CARROLL	41	0.1
62.0	COOPER	94	0.3	99.5	OZARK	41	0.1
63.5	DENT	91	0.3	101.0	CEDAR	37	0.1
63.5	NEW MADRID	91	0.3	102.0	HOLT	36	0.1
65.0	ANDREW	90	0.3	103.0	CHARITON	34	0.1
66.0	MONITEAU	88	0.3	104.0	SULLIVAN	33	0.1
67.0	CLINTON	85	0.3	105.0	MERCER	28	0.1
68.0	LIVINGSTON	78	0.2	107.0	ATCHISON	27	0.1
70.0	DAVIESS	69	0.2	107.0	GENTRY	27	0.1
70.0	HARRISON	69	0.2	107.0	PUTNAM	27	0.1
70.0	OSAGE	69	0.2	109.0	SHELBY	22	0.1
72.5	RIPLEY	68	0.2	110.0	KNOX	21	0.1
72.5	WRIGHT	68	0.2	111.0	CLARK	19	0.1
74.5	BATES	67	0.2	112.0	DADE	17	0.1
74.5	MACON	67	0.2	113.0	SCOTLAND	12	0.0
76.0	MARIES	65	0.2	114.0	SCHUYLER	11	0.0
77.5	BOLLINGER	61	0.2	115.0	WORTH	9	0.0

TABLE 3.1.16

## 2003 SPEED-INVOLVED CRASHES

### CITY LISTING

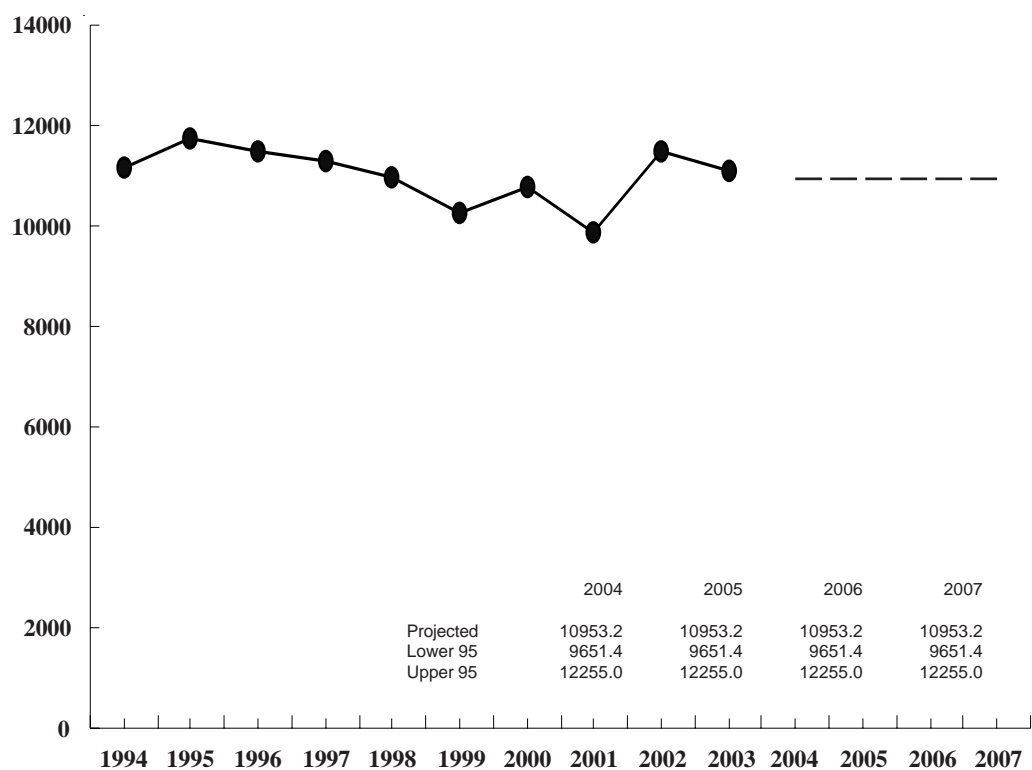
RANK	CITY	FREQUENCY	PERCENT <sup>1</sup>
1.0	KANSAS CITY	3,682	20.7
2.0	ST. LOUIS	2,207	12.4
3.0	SPRINGFIELD	734	4.1
4.0	INDEPENDENCE	647	3.6
5.0	COLUMBIA	376	2.1
6.0	ST. JOSEPH	327	1.8
7.0	LEE'S SUMMIT	288	1.6
8.0	MARYLAND HEIGHTS	278	1.6
9.0	ST. CHARLES	270	1.5
10.0	CHESTERFIELD	244	1.4
11.0	ST. PETERS	232	1.3
12.0	BLUE SPRINGS	229	1.3
13.0	O'FALLON	227	1.3
14.0	KIRKWOOD	194	1.1
15.0	FLORISSANT	182	1.0
16.0	HAZELWOOD	180	1.0
17.0	BRIDGETON	165	0.9
18.0	JOPLIN	155	0.9
19.0	RICHMOND HEIGHTS	154	0.9
20.0	CREVE COEUR	153	0.9
21.0	CAPE GIRARDEAU	147	0.8
22.0	OVERLAND	144	0.8
23.0	BERKELEY	141	0.8
24.0	TOWN AND COUNTRY	140	0.8
25.0	BALLWIN	135	0.8
26.0	JEFFERSON CITY	126	0.7
27.0	SUNSET HILLS	116	0.7
28.0	WENTZVILLE	112	0.6
29.0	WEBSTER GROVES	110	0.6
30.0	ROLLA	109	0.6
31.0	SEDALIA	108	0.6
32.0	WILDWOOD	107	0.6
33.0	HANNIBAL	106	0.6
34.0	LADUE	101	0.6
35.0	LIBERTY	95	0.5
36.0	FESTUS	94	0.5
37.0	BELLEFONTAINE NEIGHBORS	93	0.5
38.5	ARNOLD	92	0.5
38.5	FERGUSON	92	0.5
40.0	RAYTOWN	89	0.5
41.5	GRANDVIEW	88	0.5
41.5	MANCHESTER	88	0.5
43.0	GLADSTONE	85	0.5
44.0	LAKE ST. LOUIS	83	0.5
45.0	POPLAR BLUFF	82	0.5

<sup>1</sup>Percentage is based on speed-involved crashes which occurred in Missouri municipalities with populations of 1,000 or more. Only those municipalities comprising 0.5% or more of these crashes are listed.

**TABLE 3.1.17**



# **MISSOURI FATAL AND PERSONAL INJURY SPEED-INVOLVED CRASHES ANNUAL TIME SERIES**



**FIGURE 3.1.4**

## 3.2 DRINKING INVOLVEMENT

***This section presents a series of data displays which identify drinking involvement in Missouri's traffic crash experience. Drinking-involved traffic crashes are defined as any crash in which one or more drivers or pedestrians were drinking and, in the opinion of the investigating officer, their intoxicated condition contributed to the cause of the crash. Data displays also are presented which identify characteristics of the drinking driver or pedestrian in these traffic crashes.***

***There are strong indications that investigating officers under-report drinking involvement as a contributing factor in traffic crashes. Under-reporting exists for a number of reasons. First, symptoms of drinking may be masked from the investigating officer. The person's physical instability may be attributed to the shock of being in a crash or resulting physical injuries rather than to intoxication. Second, the investigating officer may not have an opportunity to observe or interview the person for an extended time period in cases where they require immediate medical attention and are transported from the scene. Finally, in cases where the investigating officer does determine a person has been drinking, there may not be enough evidence to indicate that their intoxicated condition contributed to the cause of the traffic crash. As a result, the apparent problem of under-reporting should be taken into consideration when evaluating data presented in this section.***

### 2003 SUMMARY ANALYSIS

- Of all 2003 Missouri traffic crashes, 4.6% were drinking related. Of all fatal traffic crashes, 23.2% were drinking related. A total of 277 persons were killed and 5,454 were injured in drinking-related traffic crashes.
- There was a decrease of 4.7% in the rate of change when comparing total 2003 drinking-related traffic crashes with those in 2002. However, there was a decrease of 4.7% when comparing 2003 fatal drinking-related traffic crashes with 2002.
- In 2003, one person was killed or injured in drinking-related traffic crashes every 1.5 hours in the State of Missouri.
- Of all drinking-related traffic crashes, 58.4% occurred on Friday, Saturday, or Sunday and 64.1% occurred between 7:00 P.M. and 2:59 A.M.
- Of the persons drinking in 2003 traffic crashes, 98.8% were driving a motorized vehicle, 0.2% were driving a non-motorized vehicle, and 1.0% were pedestrians.
- Of the drinking drivers of motorized vehicles, 79.5% were male and 20.5% were female. The average age of drinking drivers of motorized vehicles was 33.3 years.
- All of the drinking drivers of non-motorized vehicles were male. The average age was 42.3 years.
- Of the drinking pedestrians, 77.4% were male and 22.6% were female. The average age of drinking pedestrians was 36.0 years.
- Of the drinking drivers of motorized and non-motorized vehicles in 2003 crashes, 54.9% were driving an automobile, 27.0% were driving a pickup truck, and 10.9% were driving a sport utility vehicle at the time of the crash.

## 2003 MISSOURI TRAFFIC CRASHES

### DRINKING INVOLVEMENT

	FATAL	%	PERSONAL INJURY	%	PROPERTY DAMAGE	%	TOTAL	%	TOTAL NUMBER <sup>1</sup>			DRINKING DRIVERS / PEDESTRIANS <sup>2</sup>	
									KILLED	INJURED		KILLED	INJURED
DRINKING INVOLVED	249	23.2	3,603	8.0	4,229	3.3	8,081	4.6	277	5,454		190	2,931
NO DRINKING INVOLVED	825	76.8	41,229	92.0	125,124	96.7	167,178	95.4	932	62,168		-	-
UNKNOWN <sup>3</sup>	21	-	1,134	-	6,210	-	7,365	-	23	1,499		-	-
<b>TOTAL</b>	<b>1,095</b>	<b>100.0</b>	<b>45,966</b>	<b>100.0</b>	<b>135,563</b>	<b>100.0</b>	<b>182,624</b>	<b>100.0</b>	<b>1,232</b>	<b>69,121</b>		<b>190</b>	<b>2,931</b>

<sup>1</sup>This statistic indicates the total number of persons killed and injured in a crash where one or more drivers or pedestrians were drinking.

<sup>2</sup>This statistic indicates the number of drinking drivers or pedestrians killed and injured.

<sup>3</sup>Crashes were classified as unknown if there was no indication that drinking was involved and the contributing circumstances of one or more drivers or pedestrians were not known.

**TABLE 3.2.1**

### 2002 and 2003 DRINKING-INVOLVED CRASH ANALYSIS

	2002	2003	RATE OF CHANGE
FATAL	270	249	- 7.8
PERSONAL INJURY	3,922	3,603	- 8.1
PROPERTY DAMAGE	4,289	4,229	- 1.4
TOTAL	8,481	8,081	- 4.7

**TABLE 3.2.2**

### 2003 DRINKING-INVOLVED CRASHES

#### CRASH TYPE BY CRASH SEVERITY

	FATAL	%	PERSONAL INJURY	%	PROPERTY DAMAGE	%	TOTAL	%
ANIMAL	0	0.0	2	0.1	7	0.2	9	0.1
BICYCLIST	1	0.4	14	0.4	1	0.0	16	0.2
FIXED OBJECT	134	53.8	1,944	54.0	2,090	49.4	4,168	51.6
OTHER OBJECT	2	0.8	21	0.6	43	1.0	66	0.8
PEDESTRIAN	14	5.6	92	2.6	3	0.1	109	1.4
TRAIN	0	0.0	1	0.0	1	0.0	2	0.0
VEHICLE IN TRANSPORT	53	21.3	1,070	29.7	1,353	32.0	2,476	30.6
VEHICLE ON OTHER ROADWAY	3	1.2	4	0.1	3	0.1	10	0.1
PARKED VEHICLE	3	1.2	153	4.3	593	14.0	749	9.3
NONCOLLISION OVERTURN	35	14.1	278	7.7	110	2.6	423	5.2
NONCOLLISION OTHER	4	1.6	24	0.7	25	0.6	53	0.7
<b>TOTAL</b>	<b>249</b>	<b>100.0</b>	<b>3,603</b>	<b>100.0</b>	<b>4,229</b>	<b>100.0</b>	<b>8,081</b>	<b>100.0</b>

**TABLE 3.2.3**

### 2003 DRINKING-INVOLVED CRASHES

#### AREA CLASSIFICATION BY CRASH SEVERITY

	FATAL	%	PERSONAL INJURY	%	PROPERTY DAMAGE	%	TOTAL	%
URBAN	65	26.1	1,391	38.6	2,276	53.8	3,732	46.2
RURAL	184	73.9	2,212	61.4	1,953	46.2	4,349	53.8
<b>TOTAL</b>	249	100.0	3,603	100.0	4,229	100.0	8,081	100.0

**TABLE 3.2.4**

### 2003 DRINKING-INVOLVED CRASHES

#### ROAD CURVATURE BY CRASH SEVERITY

	FATAL	%	PERSONAL INJURY	%	PROPERTY DAMAGE	%	TOTAL	%
STRAIGHT	134	53.8	2,477	69.1	3,234	77.5	5,845	73.0
CURVE	115	46.2	1,109	30.9	938	22.5	2,162	27.0
UNKNOWN	0	-	17	-	57	-	74	-
<b>TOTAL</b>	249	100.0	3,603	100.0	4,229	100.0	8,081	100.0

**TABLE 3.2.5**

### 2003 DRINKING-INVOLVED CRASHES

#### ROAD INCLINE BY CRASH SEVERITY

	FATAL	%	PERSONAL INJURY	%	PROPERTY DAMAGE	%	TOTAL	%
LEVEL	103	41.4	2,167	60.7	2,777	66.8	5,047	63.3
HILL	134	53.8	1,306	36.6	1,289	31.0	2,729	34.2
CREST	12	4.8	96	2.7	92	2.2	200	2.5
UNKNOWN	0	-	34	-	71	-	105	-
<b>TOTAL</b>	249	100.0	3,603	100.0	4,229	100.0	8,081	100.0

**TABLE 3.2.6**

## 2003 DRINKING-INVOLVED CRASHES

### ROAD CONDITIONS BY CRASH SEVERITY

	FATAL	%	PERSONAL INJURY	%	PROPERTY DAMAGE	%	TOTAL	%
DRY	223	89.9	3,036	84.6	3,448	82.0	6,707	83.4
WET	22	8.9	477	13.3	629	15.0	1,128	14.0
SNOW	1	0.4	42	1.2	85	2.0	128	1.6
ICE	2	0.8	24	0.7	30	0.7	56	0.7
SLUSH	0	0.0	6	0.2	8	0.2	14	0.2
MUD	0	0.0	1	0.0	4	0.1	5	0.1
STANDING WATER	0	0.0	1	0.0	0	0.0	1	0.0
MOVING WATER	0	0.0	0	0.0	1	0.0	1	0.0
UNKNOWN	1	-	16	-	24	-	41	-
<b>TOTAL</b>	249	100.0	3,603	100.0	4,229	100.0	8,081	100.0

**TABLE 3.2.7**

## 2003 DRINKING-INVOLVED CRASHES

### HIGHWAY CLASSIFICATION BY CRASH SEVERITY

	FATAL	%	PERSONAL INJURY	%	PROPERTY DAMAGE	%	TOTAL	%
INTERSTATE	18	7.2	344	9.6	307	7.3	669	8.3
U.S. HIGHWAY	30	12.1	360	10.0	333	7.9	723	9.0
STATE NUMBERED	60	24.1	663	18.4	562	13.3	1,285	15.9
SINGLE STATE LETTERED	45	18.1	436	12.1	291	6.9	772	9.6
DOUBLE STATE LETTERED	15	6.0	190	5.3	125	3.0	330	4.1
OUTER ROAD	3	1.2	31	0.9	33	0.8	67	0.8
COUNTY ROAD	39	15.7	584	16.2	627	14.8	1,250	15.5
CITY STREET	35	14.1	911	25.3	1,763	41.7	2,709	33.5
INTERSTATE LOOP	0	0.0	9	0.3	15	0.4	24	0.3
OTHER <sup>1</sup>	4	1.6	75	2.1	173	4.1	252	3.1
<b>TOTAL</b>	249	100.0	3,603	100.0	4,229	100.0	8,081	100.0

<sup>1</sup> "Other" includes types of roads that are maintained by the State as well as by local jurisdictions.

**TABLE 3.2.8**

## 2003 DRINKING-INVOLVED CRASHES

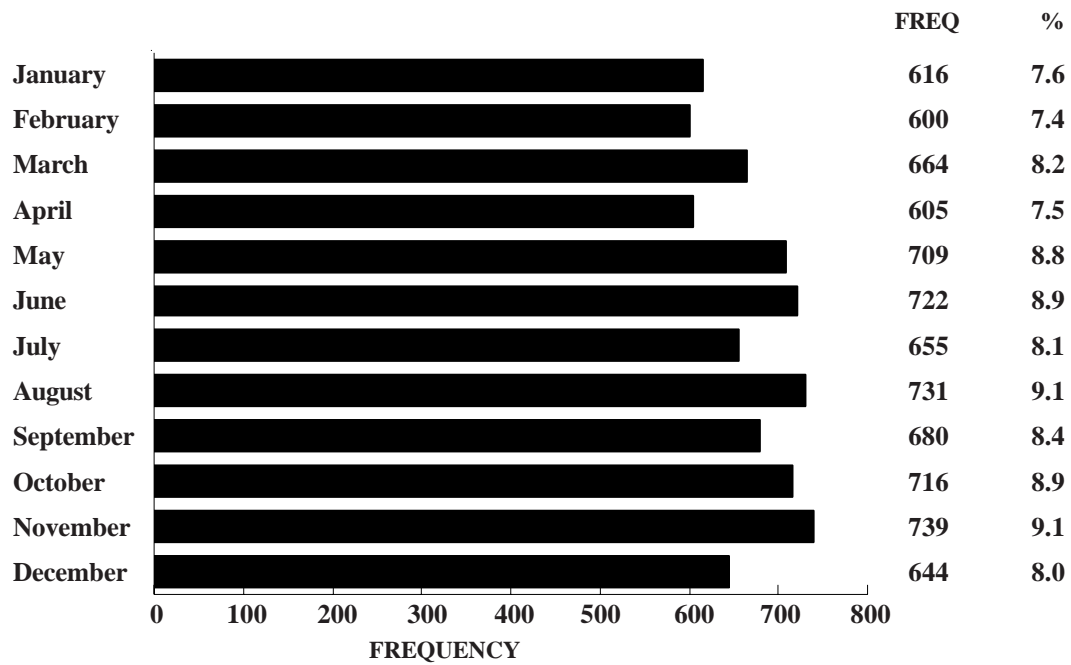
### HIGHWAY CLASSIFICATION BY AREA CLASSIFICATION AND CRASH SEVERITY

	URBAN								RURAL							
	FATAL	%	PERSONAL INJURY	%	PROPERTY DAMAGE	%	TOTAL	%	FATAL	%	PERSONAL INJURY	%	PROPERTY DAMAGE	%	TOTAL	%
INTERSTATE	12	18.5	179	12.9	175	7.7	366	9.8	6	3.3	165	7.5	132	6.8	303	7.0
U.S. HIGHWAY	6	9.2	100	7.2	134	5.9	240	6.4	24	13.0	260	11.8	199	10.2	483	11.1
STATE NUMBERED	11	16.9	155	11.1	174	7.6	340	9.1	49	26.6	508	23.0	388	19.9	945	21.7
SINGLE STATE LETTERED	2	3.1	39	2.8	29	1.3	70	1.9	43	23.4	397	18.0	262	13.4	702	16.1
DOUBLE STATE LETTERED	1	1.5	11	0.8	21	0.9	33	0.9	14	7.6	179	8.1	104	5.3	297	6.8
OUTER ROAD	0	0.0	14	1.0	16	0.7	30	0.8	3	1.6	17	0.8	17	0.9	37	0.9
COUNTY ROAD	0	0.0	41	3.0	67	2.9	108	2.9	39	21.2	543	24.6	560	28.7	1,142	26.3
CITY STREET	32	49.2	796	57.2	1,529	67.2	2,357	63.2	3	1.6	115	5.2	234	12.0	352	8.1
INTERSTATE LOOP	0	0.0	6	0.4	9	0.4	15	0.4	0	0.0	3	0.1	6	0.3	9	0.2
OTHER <sup>1</sup>	1	0.0	50	3.6	122	5.4	173	4.6	3	1.6	25	1.1	51	2.6	79	1.8
TOTAL	65	100.0	1,391	100.0	2,276	100.0	3,732	100.0	184	100.0	2,212	100.0	1,953	100.0	4,349	100.0

<sup>1</sup> "Other" includes types of roads that are maintained by the State as well as by local jurisdictions.

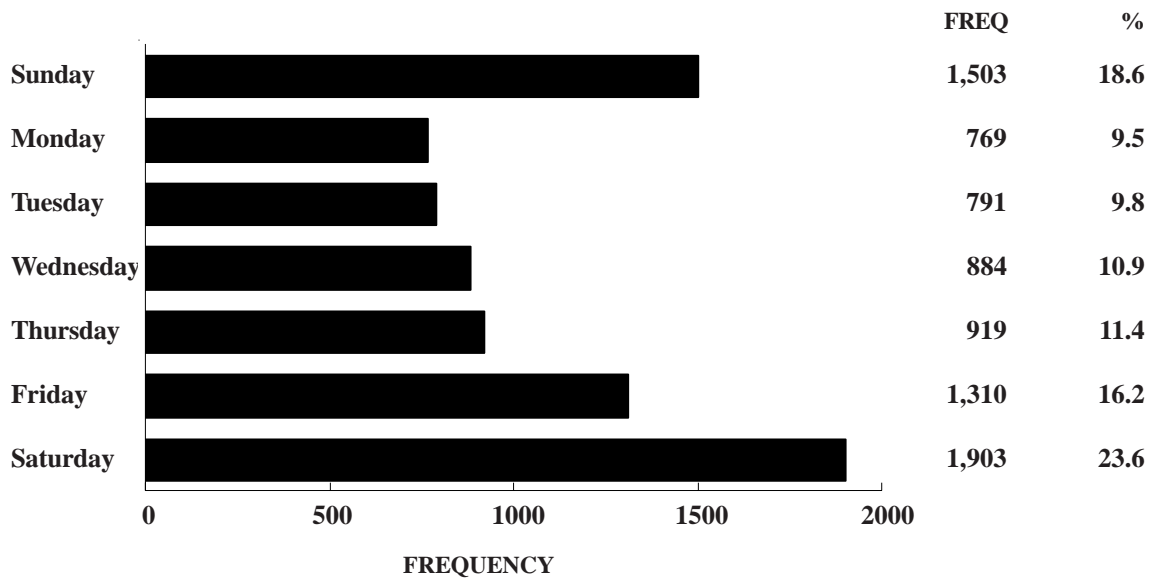
**TABLE 3.2.9**

**2003 MISSOURI DRINKING-INVOLVED CRASHES  
MONTH OF YEAR**



**FIGURE 3.2.1**

**2003 MISSOURI DRINKING-INVOLVED CRASHES  
DAY OF WEEK**

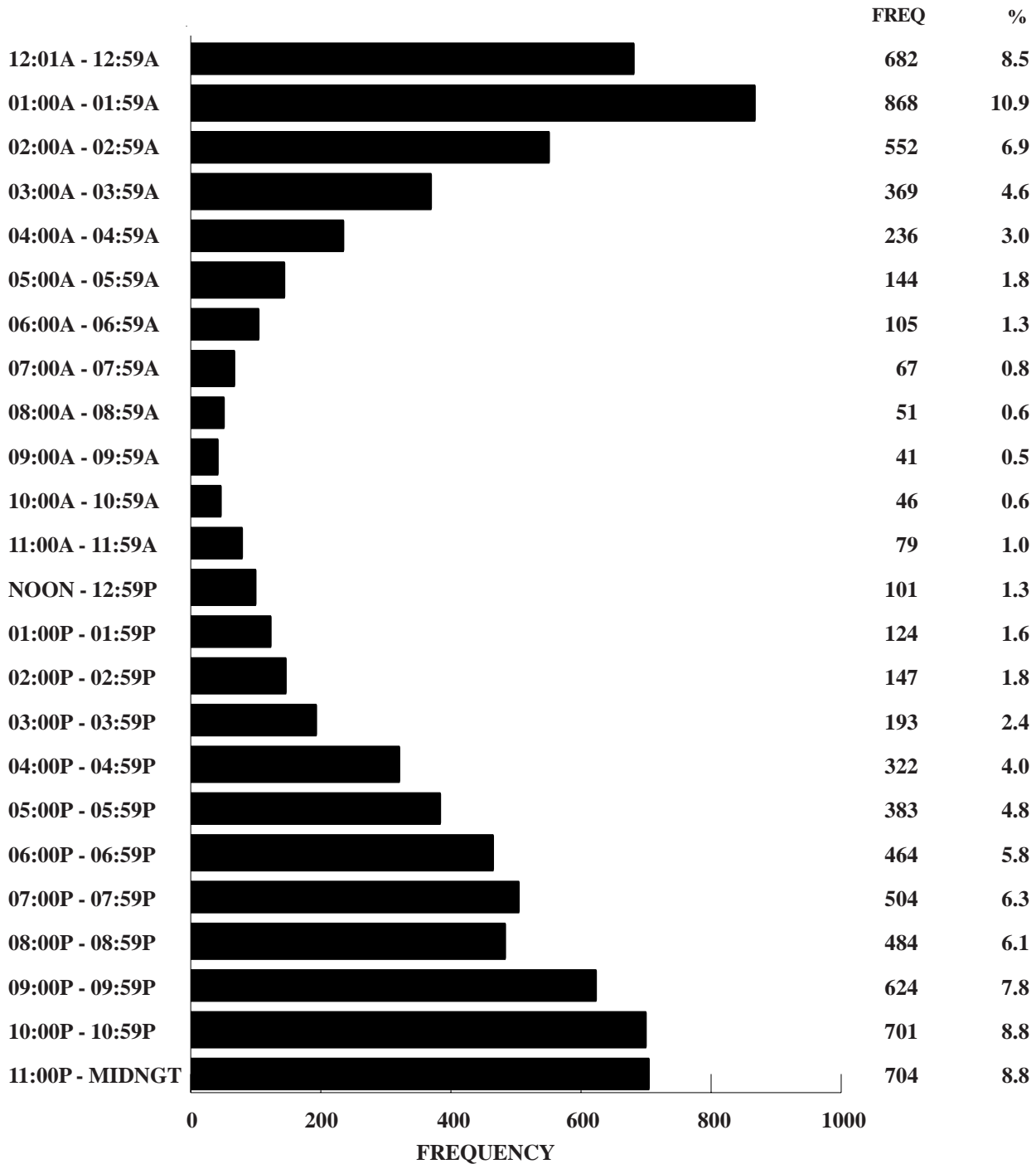


Unknown Data Not Included

**FIGURE 3.2.2**



**2003 MISSOURI DRINKING-INVOLVED CRASHES  
HOUR OF DAY**



Unknown Data Not Included

**FIGURE 3.2.3**

**PERSONS DRINKING IN 2003 MISSOURI CRASHES**

**PERSON TYPE AND SEX BY CRASH SEVERITY**

	<b>FATAL</b>	<b>%</b>	<b>PERSONAL INJURY</b>	<b>%</b>	<b>PROPERTY DAMAGE</b>	<b>%</b>	<b>TOTAL</b>	<b>%</b>
<b>MALE</b>								
DRIVERS MOTORIZED VEHICLES	213	83.2	2,773	76.5	3,163	74.6	6,149	75.7
DRIVERS NON-MOTORIZED VEHICLES	1	0.4	11	0.3	1	0.0	13	0.2
PEDESTRIANS	9	3.5	55	1.5	1	0.0	65	0.8
<b>FEMALE</b>								
DRIVERS MOTORIZED VEHICLES	28	10.9	741	20.4	814	19.2	1,583	19.5
DRIVERS NON-MOTORIZED VEHICLES	0	0.0	0	0.0	0	0.0	0	0.0
PEDESTRIANS	4	1.7	13	0.4	2	0.0	19	0.2
<b>SEX UNKNOWN</b>								
DRIVERS MOTORIZED VEHICLES	1	0.4	34	0.9	261	6.2	296	3.6
DRIVERS NON-MOTORIZED VEHICLES	0	0.0	0	0.0	0	0.0	0	0.0
PEDESTRIANS	0	0.0	0	0.0	0	0.0	0	0.0
<b>TOTAL</b>	256	100.0	3,627	100.0	4,242	100.0	8,125	100.0

**TABLE 3.2.10**

## DRIVERS OF MOTORIZED VEHICLES DRINKING IN 2003 MISSOURI CRASHES

### AGE OF DRIVER BY CRASH SEVERITY

	FATAL	%	PERSONAL INJURY	%	PROPERTY DAMAGE	%	TOTAL	%
<b>AVERAGE AGE OF DRIVER</b>	32.3	-	33.0	-	33.6	-	33.3	-
14 YEARS AND UNDER	0	0.0	0	0.0	0	0.0	0	0.0
15 - 20 YEARS	32	13.3	517	14.8	632	16.0	1,181	15.3
21 - 25 YEARS	68	28.2	779	22.2	790	20.0	1,637	21.3
26 - 30 YEARS	27	11.2	439	12.5	475	12.0	941	12.2
31 - 35 YEARS	25	10.4	389	11.1	403	10.2	817	10.6
36 - 40 YEARS	25	10.4	377	10.8	459	11.6	861	11.2
41 - 45 YEARS	26	10.8	409	11.7	463	11.7	898	11.7
46 - 50 YEARS	17	7.1	272	7.8	333	8.4	622	8.1
51 - 55 YEARS	13	5.4	165	4.7	190	4.8	368	4.8
56 - 60 YEARS	3	1.2	77	2.2	113	2.9	193	2.5
61 - 65 YEARS	2	0.8	34	1.0	37	0.9	73	1.0
66 YEARS AND OVER	3	1.2	44	1.3	64	1.6	111	1.4
UNKNOWN	1	-	46	-	279	-	326	-
<b>TOTAL</b>	242	100.0	3,548	100.0	4,238	100.0	8,028	100.0

**TABLE 3.2.11**

# DRIVERS OF NON-MOTORIZED VEHICLES DRINKING IN 2003 MISSOURI CRASHES

## AGE OF DRIVER BY CRASH SEVERITY

	FATAL	%	PERSONAL INJURY	%	PROPERTY DAMAGE	%	TOTAL	%
<b>AVERAGE AGE OF DRIVER</b>	47.0	-	42.5	-	36.0	-	42.3	-
14 YEARS AND UNDER	0	0.0	0	0.0	0	0.0	0	0.0
15 - 20 YEARS	0	0.0	0	0.0	0	0.0	0	0.0
21 - 25 YEARS	0	0.0	0	0.0	0	0.0	0	0.0
26 - 30 YEARS	0	0.0	0	0.0	0	0.0	0	0.0
31 - 35 YEARS	0	0.0	3	27.3	0	0.0	3	23.1
36 - 40 YEARS	0	0.0	4	36.4	1	100.0	5	38.5
41 - 45 YEARS	0	0.0	2	18.2	0	0.0	2	15.4
46 - 50 YEARS	1	100.0	0	0.0	0	0.0	1	7.7
51 - 55 YEARS	0	0.0	1	9.1	0	0.0	1	7.7
56 - 60 YEARS	0	0.0	0	0.0	0	0.0	0	0.0
61 - 65 YEARS	0	0.0	0	0.0	0	0.0	0	0.0
66 YEARS AND OVER	0	0.0	1	9.1	0	0.0	1	7.7
UNKNOWN	0	-	0	-	0	-	0	-
<b>TOTAL</b>	1	100.0	11	100.0	1	100.0	13	100.0

**TABLE 3.2.12**

**PEDESTRIANS DRINKING IN 2003 MISSOURI CRASHES**

**AGE OF PEDESTRIAN BY CRASH SEVERITY**

	<b>FATAL</b>	<b>%</b>	<b>PERSONAL INJURY</b>	<b>%</b>	<b>PROPERTY DAMAGE</b>	<b>%</b>	<b>TOTAL</b>	<b>%</b>
<b>AVERAGE AGE OF PEDESTRIAN</b>	33.7	-	36.0	-	45.7	-	36.0	-
14 YEARS AND UNDER	0	0.0	0	0.0	0	0.0	0	0.0
15 - 20 YEARS	1	7.7	7	10.6	0	0.0	8	9.8
21 - 25 YEARS	3	23.1	12	18.2	0	0.0	15	18.3
26 - 30 YEARS	1	7.7	8	12.1	0	0.0	9	11.0
31 - 35 YEARS	4	30.8	9	13.6	0	0.0	13	15.9
36 - 40 YEARS	1	7.7	3	4.6	1	33.3	5	6.1
41 - 45 YEARS	0	0.0	13	19.7	0	0.0	13	15.9
46 - 50 YEARS	1	7.7	7	10.6	2	66.7	10	12.2
51 - 55 YEARS	1	7.7	3	4.6	0	0.0	4	4.9
56 - 60 YEARS	1	7.7	1	1.5	0	0.0	2	2.4
61 - 65 YEARS	0	0.0	1	1.5	0	0.0	1	1.2
66 YEARS AND OVER	0	0.0	2	3.0	0	0.0	2	2.4
UNKNOWN	0	-	2	-	0	-	2	-
<b>TOTAL</b>	13	100.0	68	100.0	3	100.0	84	100.0

**TABLE 3.2.13**

# DRIVERS OF MOTORIZED AND NON-MOTORIZED VEHICLES DRINKING IN 2003 MISSOURI CRASHES

## TYPE OF VEHICLE DRIVEN BY CRASH SEVERITY

	FATAL	%	PERSONAL INJURY	%	PROPERTY DAMAGE	%	TOTAL	%
AUTOMOBILE	109	44.9	1,850	52.0	2,447	58.0	4,406	54.9
SPORT UTILITY VEHICLE	31	12.8	417	11.7	428	10.1	876	10.9
LIMOUSINE	0	0.0	0	0.0	0	0.0	0	0.0
VAN	7	2.9	154	4.3	209	5.0	370	4.6
BUS	0	0.0	2	0.1	0	0.0	2	0.0
SCHOOL BUS	0	0.0	0	0.0	0	0.0	0	0.0
MOTORCYCLE	16	6.6	73	2.1	8	0.2	97	1.2
MOPED	0	0.0	4	0.1	0	0.0	4	0.1
BICYCLE	0	0.0	11	0.3	1	0.0	12	0.2
MOTOR HOME / CAMPER	0	0.0	0	0.0	2	0.1	2	0.0
FARM EQUIPMENT	1	0.4	0	0.0	1	0.0	2	0.0
CONSTRUCTION EQUIPMENT	0	0.0	0	0.0	0	0.0	0	0.0
OTHER TRANSPORT DEVICE	0	0.0	0	0.0	0	0.0	0	0.0
PICKUP TRUCK	71	29.2	999	28.1	1,096	26.0	2,166	27.0
OTHER TRUCKS	2	0.8	26	0.7	28	0.7	56	0.7
ALL TERRAIN VEHICLE	6	2.5	20	0.6	1	0.0	27	0.3
UNKNOWN	0	-	3	-	18	-	21	-
<b>TOTAL</b>	243	100.0	3,559	100.0	4,239	100.0	8,041	100.0

**TABLE 3.2.14**

# DRIVERS OF MOTORIZED VEHICLES DRINKING IN 2003 MISSOURI CRASHES

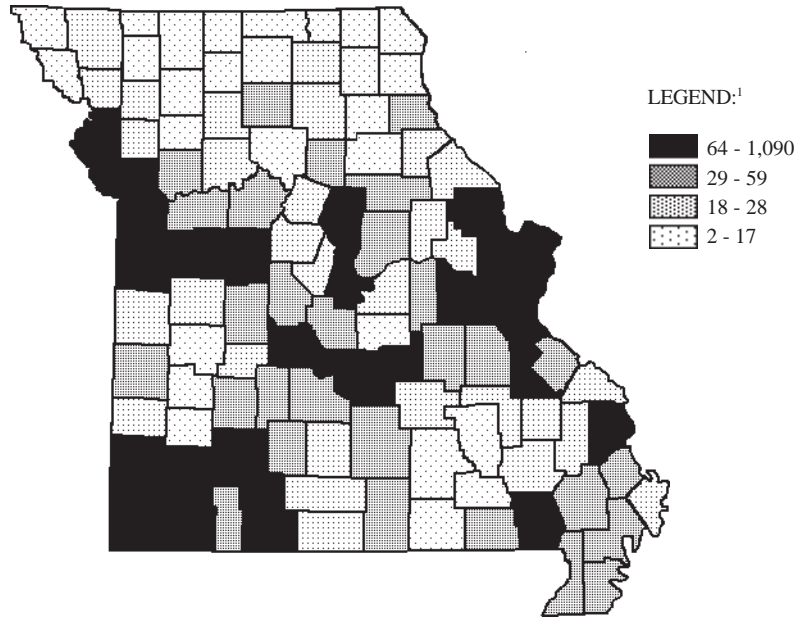
## DRIVER'S LICENSE STATE AND TYPE BY CRASH SEVERITY

	FATAL	%	PERSONAL INJURY	%	PROPERTY DAMAGE	%	TOTAL	%
<b>MISSOURI</b>								
LEARNER'S PERMIT	0	0.0	21	0.6	14	0.4	35	0.5
OPERATOR'S LICENSE	149	61.8	2,385	69.7	2,792	72.9	5,326	71.1
MOTORCYCLE ONLY	0	0.0	0	0.0	0	0.0	0	0.0
COMMERCIAL DRIVER'S LICENSE	12	5.0	164	4.8	152	4.0	328	4.4
SUBTOTAL	161	66.8	2,570	75.1	2,958	77.2	5,689	75.9
<b>OUT STATE</b>								
LEARNER'S PERMIT	0	0.0	0	0.0	0	0.0	0	0.0
OPERATOR'S LICENSE	22	9.1	226	6.6	280	7.3	528	7.1
MOTORCYCLE ONLY	0	0.0	0	0.0	0	0.0	0	0.0
COMMERCIAL DRIVER'S LICENSE	1	0.4	11	0.3	18	0.5	30	0.4
SUBTOTAL	23	9.5	237	6.9	298	7.8	558	7.4
UNLICENSED	57	23.7	613	17.9	574	15.0	1,244	16.6
UNKNOWN	1	-	128	-	408	-	537	-
<b>TOTAL</b>	<b>242</b>	<b>100.0</b>	<b>3,548</b>	<b>100.0</b>	<b>4,238</b>	<b>100.0</b>	<b>8,028</b>	<b>100.0</b>

TABLE 3.2.15

## 2003 DRINKING-INVOLVED CRASHES

### COUNTY QUARTILE ANALYSIS



<sup>1</sup>LEGEND CATEGORIES ARE BASED ON QUARTILES OF COUNTIES.

RANK	COUNTY	FREQUENCY	PERCENT	RANK	COUNTY	FREQUENCY	PERCENT
1.0	JACKSON	1,090	13.5	22.0	COLE	81	1.0
2.0	ST. LOUIS	1,088	13.5	23.0	ST. FRANCOIS	80	1.0
3.0	GREENE	375	4.6	24.0	CAPE GIRARDEAU	74	0.9
4.0	ST. CHARLES	373	4.6	25.5	LAWRENCE	68	0.8
5.0	JEFFERSON	331	4.1	25.5	PETTIS	68	0.8
6.0	BOONE	256	3.2	27.0	CHRISTIAN	67	0.8
7.5	CLAY	218	2.7	28.5	LINCOLN	64	0.8
7.5	ST. LOUIS CITY	218	2.7	28.5	PULASKI	64	0.8
9.5	FRANKLIN	171	2.1	First Quartile			
9.5	JASPER	171	2.1	Second Quartile			
11.0	BUCHANAN	148	1.8	30.0	SCOTT	59	0.7
12.0	TANEY	119	1.5	31.0	PEMISCOT	58	0.7
13.0	PLATTE	108	1.3	32.0	MARION	54	0.7
14.0	JOHNSON	94	1.2	33.5	DUNKLIN	53	0.7
15.0	MCDONALD	92	1.1	33.5	HOWELL	53	0.7
16.0	CAMDEN	91	1.1	35.0	CRAWFORD	52	0.6
17.0	BARRY	90	1.1	36.0	CALLAWAY	51	0.6
18.0	BUTLER	88	1.1	38.0	MORGAN	50	0.6
19.0	NEWTON	87	1.1	38.0	STODDARD	50	0.6
20.0	CASS	85	1.1	38.0	STONE	50	0.6
21.0	PHELPS	82	1.0				



RANK	COUNTY	FREQUENCY	PERCENT	RANK	COUNTY	FREQUENCY	PERCENT
40.0	LAFAYETTE	47	0.6	77.0	MACON	22	0.3
41.0	LACLEDE	39	0.5	80.0	MONTGOMERY	21	0.3
42.0	MILLER	38	0.5	80.0	RALLS	21	0.3
43.0	RANDOLPH	37	0.5	80.0	WRIGHT	21	0.3
44.0	AUDRAIN	36	0.4	82.0	ANDREW	20	0.2
45.5	RIPLEY	35	0.4	83.0	DE KALB	19	0.2
45.5	TEXAS	35	0.4	86.0	BARTON	18	0.2
47.5	GASCONADE	34	0.4	86.0	CARROLL	18	0.2
47.5	WEBSTER	34	0.4	86.0	HOWARD	18	0.2
49.5	POLK	33	0.4	86.0	LIVINGSTON	18	0.2
49.5	SALINE	33	0.4	86.0	MADISON	18	0.2
51.0	BENTON	32	0.4				Third Quartile
53.5	DALLAS	31	0.4				Fourth Quartile
53.5	LINN	31	0.4	89.5	DADE	17	0.2
53.5	NEW MADRID	31	0.4	89.5	MARIES	17	0.2
53.5	STE. GENEVIEVE	31	0.4	91.5	CARTER	15	0.2
56.5	RAY	30	0.4	91.5	CHARITON	15	0.2
56.5	VERNON	30	0.4	93.0	CEDAR	14	0.2
58.0	WASHINGTON	29	0.4	96.0	GRUNDY	13	0.2
			Second Quartile	96.0	HARRISON	13	0.2
			Third Quartile	96.0	LEWIS	13	0.2
60.0	HENRY	28	0.3	96.0	OREGON	13	0.2
60.0	OSAGE	28	0.3	96.0	ST. CLAIR	13	0.2
60.0	PERRY	28	0.3	99.5	DAVISS	12	0.1
63.0	ADAIR	27	0.3	99.5	SULLIVAN	12	0.1
63.0	NODAWAY	27	0.3	101.5	CALDWELL	10	0.1
63.0	WAYNE	27	0.3	101.5	REYNOLDS	10	0.1
65.0	MISSISSIPPI	26	0.3	104.5	KNOX	9	0.1
67.0	CLINTON	25	0.3	104.5	MONROE	9	0.1
67.0	COOPER	25	0.3	104.5	PUTNAM	9	0.1
67.0	DENT	25	0.3	104.5	SHANNON	9	0.1
70.5	BOLLINGER	24	0.3	108.0	ATCHISON	8	0.1
70.5	OZARK	24	0.3	108.0	HOLT	8	0.1
70.5	PIKE	24	0.3	108.0	SCOTLAND	8	0.1
70.5	WARREN	24	0.3	110.0	GENTRY	6	0.1
74.0	DOUGLAS	23	0.3	112.5	CLARK	5	0.1
74.0	HICKORY	23	0.3	112.5	SCHUYLER	5	0.1
74.0	MONITEAU	23	0.3	112.5	SHELBY	5	0.1
77.0	BATES	22	0.3	112.5	WORTH	5	0.1
77.0	IRON	22	0.3	115.0	MERCER	2	0.0

TABLE 3.2.16

## 2003 DRINKING-INVOLVED CRASHES

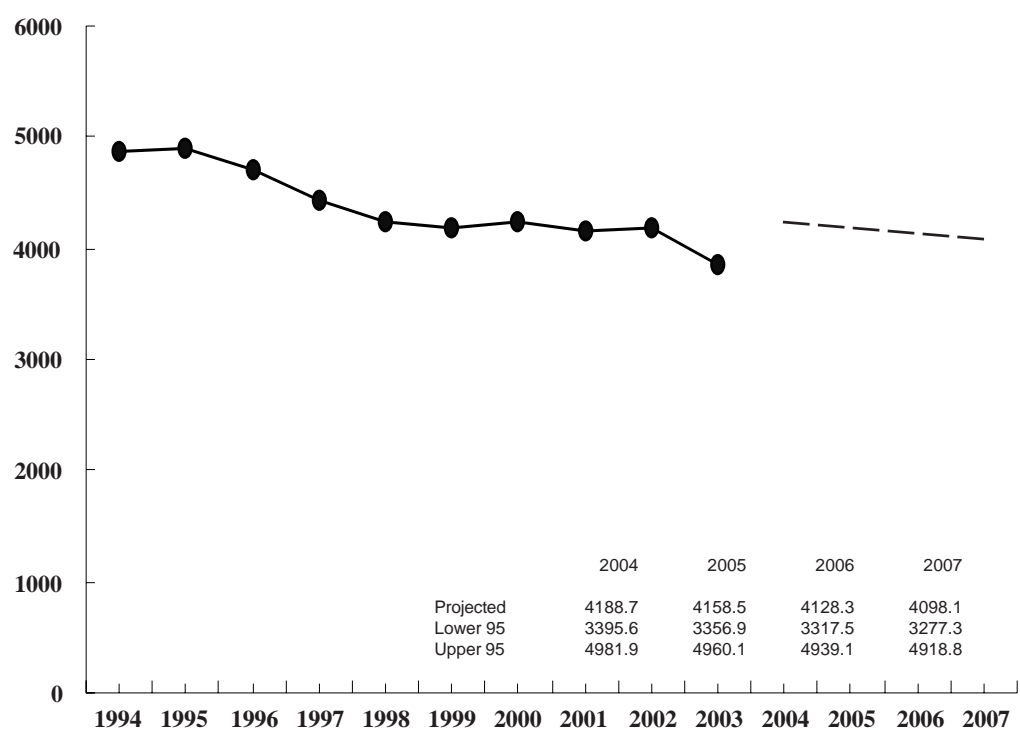
### CITY LISTING

RANK	CITY	FREQUENCY	PERCENT <sup>1</sup>
1.0	KANSAS CITY	747	17.3
2.0	SPRINGFIELD	265	6.1
3.0	INDEPENDENCE	223	5.2
4.0	ST. LOUIS	218	5.1
5.0	COLUMBIA	171	4.0
6.0	ST. JOSEPH	114	2.6
7.0	MARYLAND HEIGHTS	96	2.2
8.0	JOPLIN	82	1.9
9.0	ST. CHARLES	81	1.9
10.0	ST. PETERS	76	1.8
11.0	O'FALLON	63	1.5
12.0	CHESTERFIELD	62	1.4
13.0	LEE'S SUMMIT	61	1.4
14.0	BLUE SPRINGS	54	1.3
15.0	FLORISSANT	53	1.2
16.0	RAYTOWN	41	1.0
17.0	SEDALIA	39	0.9
18.0	HANNIBAL	36	0.8
19.0	JEFFERSON CITY	35	0.8
20.0	KIRKWOOD	34	0.8
21.0	GRANDVIEW	33	0.8
22.5	ROLLA	31	0.7
22.5	UNIVERSITY CITY	31	0.7
24.5	ARNOLD	30	0.7
24.5	TOWN AND COUNTRY	30	0.7
26.5	BRIDGETON	29	0.7
26.5	CAPE GIRARDEAU	29	0.7
28.5	LIBERTY	27	0.6
28.5	WARRENSBURG	27	0.6
30.0	HAZELWOOD	25	0.6
31.0	NORTH KANSAS CITY	24	0.6
33.0	CREVE COEUR	23	0.5
33.0	OSAGE BEACH	23	0.5
33.0	ST. ROBERT	23	0.5
36.0	DES PERES	22	0.5
36.0	ST. ANN	22	0.5
36.0	WASHINGTON	22	0.5
39.0	LAKE ST. LOUIS	21	0.5
39.0	OVERLAND	21	0.5
39.0	WILDWOOD	21	0.5
42.0	CARTHAGE	20	0.5
42.0	GLADSTONE	20	0.5
42.0	JENNINGS	20	0.5

<sup>1</sup>Percentage is based on drinking-involved crashes which occurred in Missouri municipalities with populations of 1,000 or more. Only those municipalities comprising 0.5% or more of these crashes are listed.

**TABLE 3.2.17**

# **MISSOURI FATAL AND PERSONAL INJURY DRINKING-INVOLVED CRASHES ANNUAL TIME SERIES**



**FIGURE 3.2.4**

### 3.3 YOUNG DRIVER INVOLVEMENT

This section presents a series of data displays which describe young driver involvement in Missouri's traffic crash experience. Young driver traffic crashes are defined as any crash in which one or more drivers of motorized vehicles directly involved in the traffic crash were under the age of 21. Data displays also are provided which identify characteristics of these young drivers.

#### 2003 SUMMARY ANALYSIS

- Of all 2003 Missouri traffic crashes, 29.9% involved a young driver. Of all fatal traffic crashes, 22.6% involved a young driver. A total of 288 persons were killed and 21,233 were injured in traffic crashes involving young drivers.
- There was a decrease of 5.6% in the rate of change when comparing 2003 young driver traffic crashes with those in 2002. There was a decrease of 7.3% when comparing 2003 fatal young driver traffic crashes with 2002.
- In 2003, one person was killed or injured in young driver related traffic crashes every 24.4 minutes in the State of Missouri.
- Of all young driver related traffic crashes, the first harmful event in 75.0% of the incidents involved one motor vehicle in transport striking another motor vehicle in transport. In 17.1% of the cases, the first harmful event involved one motor vehicle striking a fixed object. In young driver fatal traffic crashes, 36.5% of the cases involved a motor vehicle striking a fixed object.
- Of all 2003 young driver crashes, 63.5% occurred in an urban area and 36.5% occurred in a rural area of the State. However, 76.8% of the fatal young driver crashes occurred in a rural area.
- Of all young driver traffic crashes, 32.9% occurred on Friday or Saturday.
- Of all young drivers in traffic crashes, 54.7% were male and 45.3% were female. Of those young drivers in fatal traffic crashes, 69.3% were male. The average age of young drivers (20 years and under) was 17.9 years.
- Of the young drivers, 91.8% had a Missouri driver's license / permit, 5.4% had an out-of-state driver's license, and 2.8% were unlicensed at the time of the crash.
- Of the young drivers, 72.7% were driving an automobile and 14.4% were driving a pickup truck at the time of the crash.
- In 48.5% of the 2003 young driver related fatal traffic crashes, a young driver was either exceeding the speed limit or driving too fast for conditions which contributed to the cause of the crash. In 13.3% of these fatal crashes, the young driver's drinking condition contributed to the cause of the crash.

## 2003 MISSOURI TRAFFIC CRASHES

### YOUNG DRIVER INVOLVEMENT

	FATAL	%	PERSONAL INJURY	%	PROPERTY DAMAGE	%	TOTAL	%	TOTAL KILLED	TOTAL NUMBER <sup>1</sup> INJURED	YOUNG DRIVERS <sup>2</sup> KILLED	INJURED
YOUNG DRIVER INVOLVED	241	22.6	13,305	30.6	33,642	29.7	47,188	29.9	288	21,233	132	8,617
NO YOUNG DRIVER INVOLVED	827	77.4	30,238	69.4	79,471	70.3	110,536	70.1	914	44,615	-	-
UNKNOWN <sup>3</sup>	27	-	2,423	-	22,450	-	24,900	-	30	3,273	-	-
<b>TOTAL</b>	<b>1,095</b>	<b>100.0</b>	<b>45,966</b>	<b>100.0</b>	<b>135,563</b>	<b>100.0</b>	<b>182,624</b>	<b>100.0</b>	<b>1,232</b>	<b>69,121</b>	<b>132</b>	<b>8,617</b>

<sup>1</sup>This statistic indicates the total number of persons killed and injured in a crash where one or more young drivers were involved.

<sup>2</sup>This statistic indicates the number of young drivers killed and injured.

<sup>3</sup>Crashes were classified as unknown if the following conditions exist: none of the known drivers involved in the accident was 20 years of age and younger and the ages of one or more drivers involved in the crash was not known.

**TABLE 3.3.1**

### 2002 and 2003 YOUNG DRIVER INVOLVED CRASH ANALYSIS

	2002	2003	RATE OF CHANGE
FATAL	260	241	- 7.3
PERSONAL INJURY	14,594	13,305	- 8.8
PROPERTY DAMAGE	35,119	33,642	- 4.2
TOTAL	49,973	47,188	- 5.6

**TABLE 3.3.2**

### 2003 YOUNG DRIVER INVOLVED CRASHES

#### CRASH TYPE BY CRASH SEVERITY

	FATAL	%	PERSONAL INJURY	%	PROPERTY DAMAGE	%	TOTAL	%
ANIMAL	0	0.0	57	0.4	411	1.2	468	1.0
BICYCLIST	1	0.4	88	0.7	19	0.1	108	0.2
FIXED OBJECT	88	36.5	3,080	23.2	4,900	14.6	8,068	17.1
OTHER OBJECT	1	0.4	30	0.2	190	0.6	221	0.5
PEDESTRIAN	13	5.4	167	1.3	11	0.0	191	0.4
TRAIN	2	0.8	3	0.0	0	0.0	5	0.0
VEHICLE IN TRANSPORT	101	41.9	9,111	68.5	26,189	77.9	35,401	75.0
VEHICLE ON OTHER ROADWAY	10	4.2	37	0.3	51	0.2	98	0.2
PARKED VEHICLE	1	0.4	171	1.3	1,424	4.2	1,596	3.4
NONCOLLISION OVERTURN	22	9.1	497	3.7	313	0.9	832	1.8
NONCOLLISION OTHER	2	0.8	64	0.5	134	0.4	200	0.4
<b>TOTAL</b>	241	100.0	13,305	100.0	33,642	100.0	47,188	100.0

**TABLE 3.3.3**

### 2003 YOUNG DRIVER INVOLVED CRASHES

#### AREA CLASSIFICATION BY CRASH SEVERITY

	FATAL	%	PERSONAL INJURY	%	PROPERTY DAMAGE	%	TOTAL	%
URBAN	56	23.2	7,667	57.6	22,252	66.1	29,975	63.5
RURAL	185	76.8	5,638	42.4	11,390	33.9	17,213	36.5
<b>TOTAL</b>	<b>241</b>	<b>100.0</b>	<b>13,305</b>	<b>100.0</b>	<b>33,642</b>	<b>100.0</b>	<b>47,188</b>	<b>100.0</b>

**TABLE 3.3.4**

### 2003 YOUNG DRIVER INVOLVED CRASHES

#### ROAD CURVATURE BY CRASH SEVERITY

	FATAL	%	PERSONAL INJURY	%	PROPERTY DAMAGE	%	TOTAL	%
STRAIGHT	162	67.2	10,768	81.5	27,668	85.4	38,598	84.1
CURVE	79	32.8	2,448	18.5	4,715	14.6	7,242	15.8
UNKNOWN	0	-	89	-	1,259	-	1,348	-
<b>TOTAL</b>	<b>241</b>	<b>100.0</b>	<b>13,305</b>	<b>100.0</b>	<b>33,642</b>	<b>100.0</b>	<b>47,188</b>	<b>100.0</b>

**TABLE 3.3.5**

### 2003 YOUNG DRIVER INVOLVED CRASHES

#### ROAD INCLINE BY CRASH SEVERITY

	FATAL	%	PERSONAL INJURY	%	PROPERTY DAMAGE	%	TOTAL	%
LEVEL	108	44.8	8,616	65.5	22,723	70.6	31,447	69.0
HILL	128	53.1	4,113	31.2	8,545	26.5	12,786	28.0
CREST	5	2.1	434	3.3	926	2.9	1,365	3.0
UNKNOWN	0	-	142	-	1,448	-	1,590	-
<b>TOTAL</b>	<b>241</b>	<b>100.0</b>	<b>13,305</b>	<b>100.0</b>	<b>33,642</b>	<b>100.0</b>	<b>47,188</b>	<b>100.0</b>

**TABLE 3.3.6**

## 2003 YOUNG DRIVER INVOLVED CRASHES

### ROAD CONDITIONS BY CRASH SEVERITY

	FATAL	%	PERSONAL INJURY	%	PROPERTY DAMAGE	%	TOTAL	%
DRY	198	82.5	10,404	78.7	25,363	75.8	35,965	76.7
WET	41	17.1	2,400	18.2	6,575	19.7	9,016	19.2
SNOW	0	0.0	257	1.9	1,033	3.1	1,290	2.8
ICE	1	0.4	122	0.9	368	1.1	491	1.1
SLUSH	0	0.0	24	0.2	81	0.2	105	0.2
MUD	0	0.0	2	0.0	11	0.0	13	0.0
STANDING WATER	0	0.0	10	0.1	12	0.0	22	0.1
MOVING WATER	0	0.0	1	0.0	7	0.0	8	0.0
UNKNOWN	1	-	85	-	192	-	278	-
<b>TOTAL</b>	241	100.0	13,305	100.0	33,642	100.0	47,188	100.0

**TABLE 3.3.7**

## 2003 YOUNG DRIVER INVOLVED CRASHES

### HIGHWAY CLASSIFICATION BY CRASH SEVERITY

	FATAL	%	PERSONAL INJURY	%	PROPERTY DAMAGE	%	TOTAL	%
INTERSTATE	27	11.2	1,037	7.8	2,554	7.6	3,618	7.7
U.S. HIGHWAY	33	13.7	1,396	10.5	3,073	9.1	4,502	9.5
STATE NUMBERED	55	22.8	2,424	18.2	5,431	16.1	7,910	16.8
SINGLE STATE LETTERED	27	11.2	1,092	8.2	1,767	5.3	2,886	6.1
DOUBLE STATE LETTERED	21	8.7	477	3.6	793	2.4	1,291	2.7
OUTER ROAD	3	1.2	118	0.9	317	0.9	438	0.9
COUNTY ROAD	31	12.9	1,704	12.8	3,664	10.9	5,399	11.4
CITY STREET	39	16.2	4,577	34.4	14,509	43.1	19,125	40.5
INTERSTATE LOOP	1	0.4	84	0.6	219	0.7	304	0.6
OTHER <sup>1</sup>	4	1.7	396	3.0	1,315	3.9	1,715	3.6
<b>TOTAL</b>	241	100.0	13,305	100.0	33,642	100.0	47,188	100.0

<sup>1</sup>"Other" includes types of roads that are maintained by the State as well as by local jurisdictions.

**TABLE 3.3.8**



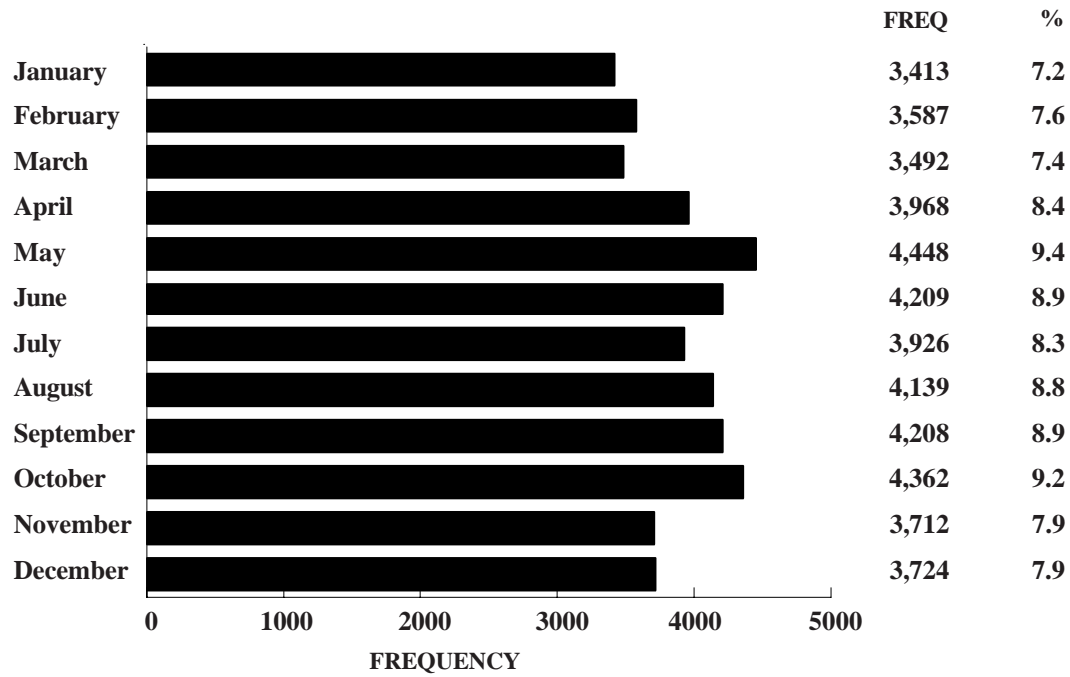
**2003 YOUNG DRIVER INVOLVED CRASHES**  
**HIGHWAY CLASSIFICATION BY AREA CLASSIFICATION AND CRASH SEVERITY**

	URBAN								RURAL							
	FATAL	%	PERSONAL INJURY	%	PROPERTY DAMAGE	%	TOTAL	%	FATAL	%	PERSONAL INJURY	%	PROPERTY DAMAGE	%	TOTAL	%
INTERSTATE	7	12.5	678	8.8	1,696	7.6	2,381	7.9	20	10.8	359	6.4	858	7.5	1,237	7.2
U.S. HIGHWAY	3	5.4	628	8.2	1,669	7.5	2,300	7.7	30	16.2	768	13.6	1,404	12.3	2,202	12.8
STATE NUMBERED	10	17.9	1,106	14.4	2,903	13.1	4,019	13.4	45	24.3	1,318	23.4	2,528	22.2	3,891	22.6
SINGLE STATE LETTERED	1	1.8	196	2.6	573	2.6	770	2.6	26	14.1	896	15.9	1,194	10.5	2,116	12.3
DOUBLE STATE LETTERED	1	1.8	117	1.5	300	1.4	418	1.4	20	10.8	360	6.4	493	4.3	873	5.1
OUTER ROAD	0	0.0	76	1.0	221	1.0	297	1.0	3	1.6	42	0.7	96	0.8	141	0.8
COUNTY ROAD	0	0.0	292	3.8	825	3.7	1,117	3.7	31	16.8	1,412	25.0	2,839	24.9	4,282	24.9
CITY STREET	34	60.7	4,182	54.6	12,933	58.1	17,149	57.2	5	2.7	395	7.0	1,576	13.8	1,976	11.5
INTERSTATE LOOP	0	0.0	73	1.0	170	0.8	243	0.8	1	0.5	11	0.2	49	0.4	61	0.4
OTHER <sup>1</sup>	0	0.0	319	4.2	962	4.3	1,281	4.3	4	2.2	77	1.4	353	3.1	434	2.5
TOTAL	56	100.0	7,667	100.0	22,252	100.0	29,975	100.0	185	100.0	5,638	100.0	11,390	100.0	17,213	100.0

<sup>1</sup> "Other" includes types of roads that are maintained by the State as well as by local jurisdictions.

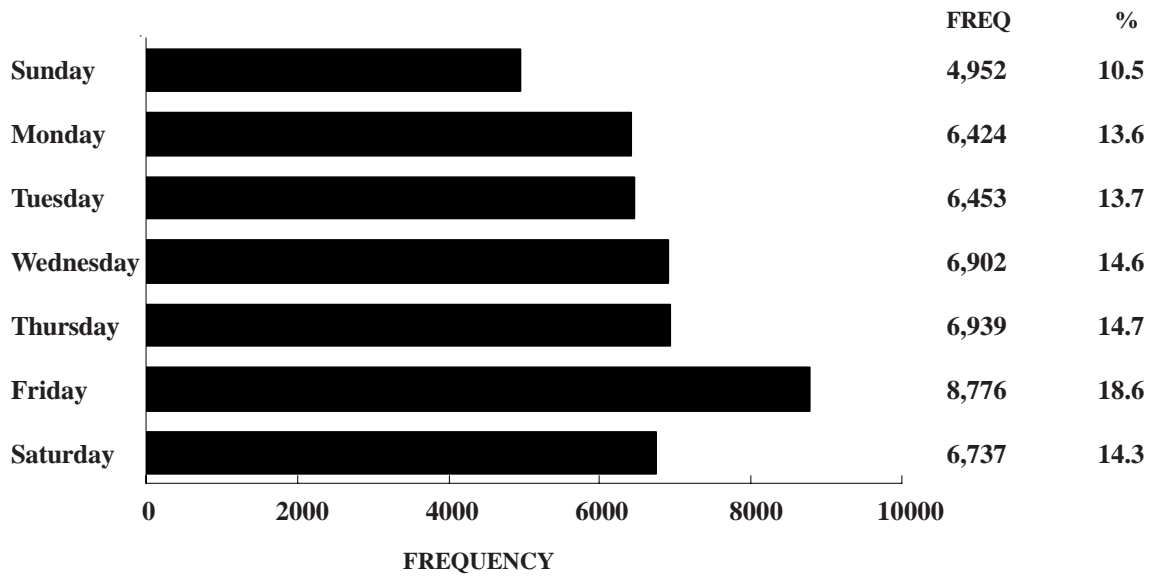
**TABLE 3.3.9**

**2003 MISSOURI YOUNG DRIVER INVOLVED CRASHES  
MONTH OF YEAR**



**FIGURE 3.3.1**

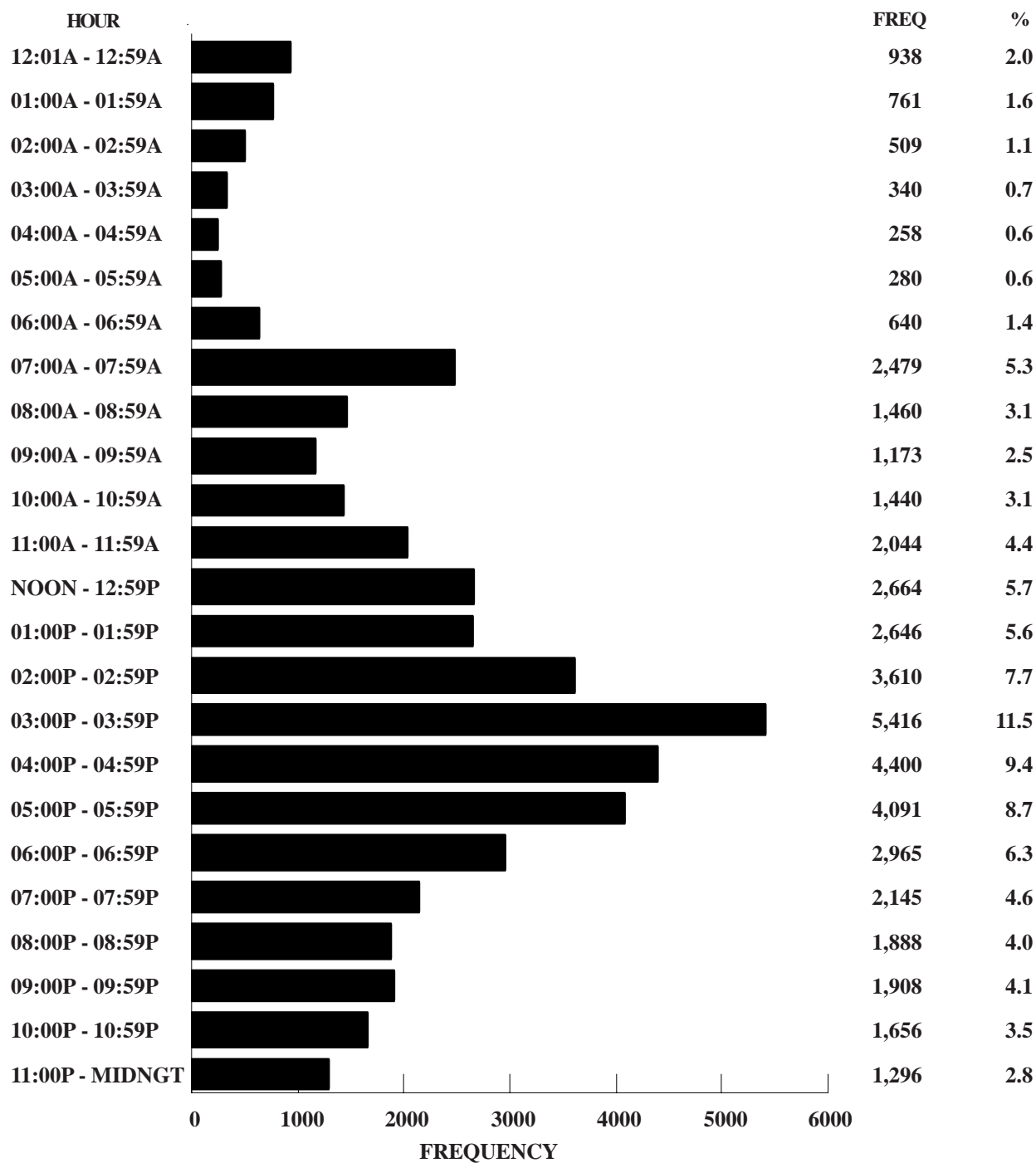
**2003 MISSOURI YOUNG DRIVER INVOLVED CRASHES  
DAY OF WEEK**



Unknown Data Not Included

**FIGURE 3.3.2**

**2003 MISSOURI YOUNG DRIVER INVOLVED CRASHES  
HOUR OF DAY**



Unknown Data Not Included

**FIGURE 3.3.3**

## 2003 MISSOURI YOUNG DRIVER CRASHES

### TYPE OF CIRCUMSTANCE INVOLVED BY CRASH SEVERITY AND PERSON CLASSIFICATION<sup>1</sup>

FATAL YOUNG DRIVER CRASHES = 241				TOTAL YOUNG DRIVER CRASHES = 47,188		
	YOUNG DRIVER/ VEHICLE	OTHER DRIVER/ VEHICLE/PED.	TOTAL FATAL	YOUNG DRIVER/ VEHICLE	OTHER DRIVER/ VEHICLE/PED.	TOTAL CRASHES
VEHICLE DEFECTS	2.5	0.4	2.9	1.9	0.5	2.4
TRAFFIC CONTROL INOPERATIVE / MISSING	0.0	0.0	0.0	0.1	0.1	0.1
IMPROPERLY STOPPED ON ROADWAY	0.4	0.4	0.8	0.3	0.3	0.6
EXCEEDING SPEED LIMIT / TOO FAST FOR CONDITIONS	48.5	5.8	53.1	19.1	2.6	21.3
IMPROPER PASSING	2.5	0.8	3.3	1.1	0.6	1.7
VIOLATION OF STOP SIGN	4.1	1.7	5.8	3.2	1.6	4.7
WRONG SIDE NOT PASSING	14.1	3.3	17.4	2.0	0.5	2.4
FOLLOWING TOO CLOSE	1.2	0.4	1.7	13.0	5.0	17.6
IMPROPER SIGNAL	0.0	0.0	0.0	0.2	0.1	0.3
IMPROPER BACKING	0.0	0.0	0.0	1.6	0.8	2.4
IMPROPER TURN	0.4	0.8	1.2	2.5	1.3	3.8
IMPROPER LANE USAGE / CHANGE	10.8	1.2	12.0	5.5	2.2	7.6
WRONG WAY ONE-WAY STREET	0.8	0.0	0.8	0.1	0.1	0.2
IMPROPER START FROM PARK	0.0	0.0	0.0	0.3	0.1	0.4
IMPROPERLY PARKED	0.0	0.0	0.0	0.1	0.1	0.2
FAILED TO YIELD	8.3	9.5	17.8	14.1	7.9	21.8
DRINKING	13.3	3.7	15.4	2.5	0.7	3.2
DRUGS	0.8	0.4	1.2	0.3	0.0	0.4
PHYSICAL IMPAIRMENT	1.7	0.8	2.5	1.1	0.1	1.3
INATTENTION	16.6	6.2	22.0	23.3	8.0	30.1

<sup>1</sup>This table identifies the percentage of young driver crashes having a specific type of circumstance which contributed to the cause of the crash. This table further defines the percentage of crashes where the contributing circumstance was associated with the young driver or his vehicle as well as those attributed to other persons and vehicles in the crash. For instance, when examining speed involvement in 2003 Missouri fatal young driver crashes, it was found that a young driver was speeding in 48.5% of the crashes. In 5.8% of the crashes another driver was speeding. In 53.1% of the crashes either a young driver, another driver, or both drivers were speeding.

**TABLE 3.3.10**

## YOUNG DRIVERS IN 2003 MISSOURI CRASHES

### SEX OF DRIVER BY CRASH SEVERITY

	FATAL	%	PERSONAL INJURY	%	PROPERTY DAMAGE	%	TOTAL	%
MALE	176	69.3	7,773	53.2	20,184	55.3	28,133	54.7
FEMALE	78	30.7	6,844	46.8	16,343	44.7	23,265	45.3
UNKNOWN	0	-	0	-	1,006	-	1,006	-
<b>TOTAL</b>	254	100.0	14,617	100.0	37,533	100.0	52,404	100.0

**TABLE 3.3.11**

## YOUNG DRIVERS IN 2003 MISSOURI CRASHES

### AGE OF DRIVER BY CRASH SEVERITY

	FATAL	%	PERSONAL INJURY	%	PROPERTY DAMAGE	%	TOTAL	%
<b>AVERAGE AGE OF YOUNG DRIVER<sup>1</sup></b>	17.9	-	17.9	-	17.9	-	17.9	-
14 YEARS AND UNDER	6	2.4	82	0.6	133	0.4	221	0.4
15 YEARS	4	1.6	200	1.4	439	1.2	643	1.2
16 YEARS	41	16.1	2,738	18.7	7,135	19.0	9,914	18.9
17 YEARS	49	19.3	2,928	20.0	7,819	20.8	10,796	20.6
18 YEARS	52	20.5	3,289	22.5	8,035	21.4	11,376	21.7
19 YEARS	56	22.1	2,798	19.1	7,104	18.9	9,958	19.0
20 YEARS	46	18.1	2,582	17.7	6,868	18.3	9,496	18.1
<b>TOTAL</b>	254	100.0	14,617	100.0	37,533	100.0	52,404	100.0

<sup>1</sup> Average age is based on only drivers 20 years of age and under.

**TABLE 3.3.12**

## YOUNG DRIVERS IN 2003 MISSOURI CRASHES

### DRIVER'S LICENSE STATE AND TYPE BY CRASH SEVERITY

	FATAL	%	PERSONAL INJURY	%	PROPERTY DAMAGE	%	TOTAL	%
<b>MISSOURI</b>								
LEARNER'S PERMIT	6	2.4	327	2.3	681	1.9	1,014	2.0
OPERATOR'S LICENSE	200	80.3	12,694	88.5	32,395	90.0	45,289	89.5
MOTORCYCLE ONLY	0	0.0	1	0.0	0	0.0	1	0.0
COMERCIAL DRIVER'S LICENSE	3	1.2	36	0.3	108	0.3	147	0.3
SUBTOTAL	209	83.9	13,058	91.0	33,184	92.2	46,451	91.8
<b>OUT STATE</b>								
LEARNER'S PERMIT	0	0.0	11	0.1	15	0.0	26	0.1
OPERATOR'S LICENSE	16	6.4	729	5.1	1,904	5.3	2,649	5.2
MOTORCYCLE ONLY	0	0.0	0	0.0	0	0.0	0	0.0
COMMERCIAL DRIVER'S LICENSE	0	0.0	10	0.1	16	0.0	26	0.1
SUBTOTAL	16	6.4	750	5.2	1,935	5.3	2,701	5.4
UNLICENSED	24	9.6	538	3.8	864	2.4	1,426	2.8
UNKNOWN	5	-	271	-	1,550	-	1,826	-
<b>TOTAL</b>	254	100.0	14,617	100.0	37,533	100.0	52,404	100.0

**TABLE 3.3.13**

**YOUNG DRIVERS IN 2003 MISSOURI CRASHES**

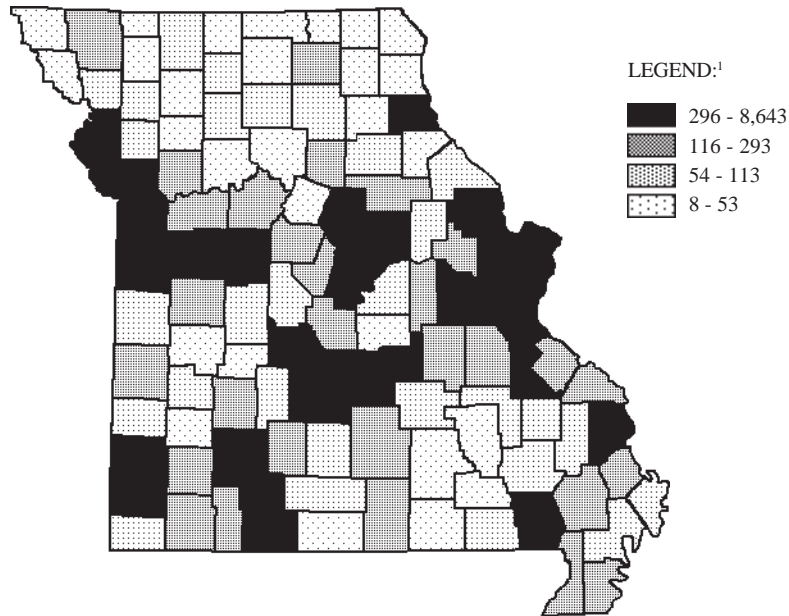
**TYPE OF VEHICLE DRIVEN BY CRASH SEVERITY**

	<b>FATAL</b>	<b>%</b>	<b>PERSONAL INJURY</b>	<b>%</b>	<b>PROPERTY DAMAGE</b>	<b>%</b>	<b>TOTAL</b>	<b>%</b>
AUTOMOBILE	161	63.4	10,529	72.1	27,393	73.0	38,083	72.7
SPORT UTILITY VEHICLE	24	9.5	1,378	9.4	3,506	9.4	4,908	9.4
LIMOUSINE	0	0.0	1	0.0	1	0.0	2	0.0
VAN	6	2.4	365	2.5	991	2.6	1,362	2.6
BUS	0	0.0	4	0.0	11	0.0	15	0.0
SCHOOL BUS	0	0.0	3	0.0	6	0.0	9	0.0
MOTORCYCLE	8	3.2	117	0.8	20	0.1	145	0.3
MOPED	0	0.0	12	0.1	4	0.0	16	0.0
MOTOR HOME / CAMPER	0	0.0	0	0.0	0	0.0	0	0.0
FARM EQUIPMENT	0	0.0	9	0.1	11	0.0	20	0.0
CONSTRUCTION EQUIPMENT	0	0.0	0	0.0	1	0.0	1	0.0
OTHER TRANSPORT DEVICE	0	0.0	7	0.1	9	0.0	16	0.0
PICKUP TRUCK	49	19.3	2,086	14.3	5,391	14.4	7,526	14.4
OTHER TRUCKS	1	0.4	40	0.3	150	0.4	191	0.4
ALL TERRAIN VEHICLE	5	2.0	59	0.4	8	0.0	72	0.1
UNKNOWN	0	-	7	-	31	-	38	-
<b>TOTAL</b>	<b>254</b>	<b>100.0</b>	<b>14,617</b>	<b>100.0</b>	<b>37,533</b>	<b>100.0</b>	<b>52,404</b>	<b>100.0</b>

**TABLE 3.3.14**

## 2003 YOUNG DRIVER INVOLVED CRASHES

### COUNTY QUARTILE ANALYSIS



<sup>1</sup>LEGEND CATEGORIES ARE BASED ON QUARTILES OF COUNTIES.

RANK	COUNTY	FREQUENCY	PERCENT	RANK	COUNTY	FREQUENCY	PERCENT
1.0	ST. LOUIS	8,643	18.3	22.0	NEWTON	393	0.8
2.0	JACKSON	5,167	10.9	23.0	CHRISTIAN	391	0.8
3.0	ST. CHARLES	2,975	6.3	24.0	LACLEDE	319	0.7
4.0	GREENE	2,948	6.2	25.0	LINCOLN	315	0.7
5.0	ST. LOUIS CITY	2,838	6.0	26.0	PULASKI	303	0.6
6.0	JEFFERSON	1,827	3.9	27.0	CALLAWAY	302	0.6
7.0	CLAY	1,421	3.0	28.0	MARION	300	0.6
8.0	BOONE	1,417	3.0	29.0	CAMDEN	296	0.6
9.0	JASPER	1,087	2.3				First Quartile
10.0	FRANKLIN	1,004	2.1				Second Quartile
11.0	CAPE GIRARDEAU	935	2.0	30.0	HOWELL	293	0.6
12.0	BUCHANAN	934	2.0	31.0	SCOTT	292	0.6
13.0	COLE	691	1.5	32.0	BARRY	266	0.6
14.0	CASS	681	1.4	33.0	POLK	240	0.5
15.0	ST. FRANCOIS	510	1.1	34.0	LAFAYETTE	239	0.5
16.0	PHELPS	471	1.0	35.5	DUNKLIN	216	0.5
17.0	PETTIS	469	1.0	35.5	RANDOLPH	216	0.5
18.0	BUTLER	467	1.0	37.0	LAWRENCE	215	0.5
19.0	PLATTE	465	1.0	38.0	WARREN	208	0.4
20.0	TANEY	453	1.0	39.0	CRAWFORD	198	0.4
21.0	JOHNSON	400	0.8				

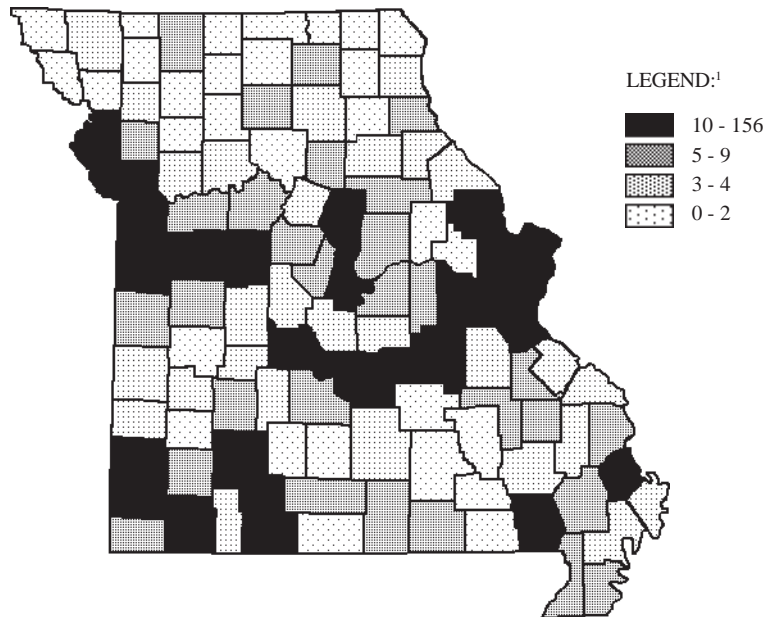


RANK	COUNTY	FREQUENCY	PERCENT	RANK	COUNTY	FREQUENCY	PERCENT
40.0	WEBSTER	192	0.4	78.0	DOUGLAS	79	0.2
41.0	PERRY	181	0.4	79.5	MISSISSIPPI	73	0.2
42.5	NODAWAY	180	0.4	79.5	RIPLEY	73	0.2
42.5	STODDARD	180	0.4	81.0	ANDREW	71	0.2
44.0	AUDRAIN	173	0.4	82.0	MONROE	69	0.1
45.0	MILLER	169	0.4	83.0	DE KALB	67	0.1
46.0	STONE	167	0.4	84.0	HARRISON	66	0.1
47.0	HENRY	159	0.3	85.0	LINN	64	0.1
48.0	SALINE	157	0.3	86.0	IRON	58	0.1
49.0	VERNON	147	0.3	87.0	BOLLINGER	54	0.1
50.0	ADAIR	146	0.3	Third Quartile			
51.0	RAY	142	0.3	Fourth Quartile			
52.0	WASHINGTON	140	0.3	88.0	ST. CLAIR	53	0.1
53.0	COOPER	136	0.3	89.0	RALLS	51	0.1
54.0	MONITEAU	135	0.3	90.5	CARROLL	49	0.1
55.0	PEMISCOT	133	0.3	90.5	CHARITON	49	0.1
56.0	GASCONADE	131	0.3	92.5	LEWIS	48	0.1
57.0	STE. GENEVIEVE	120	0.3	92.5	OREGON	48	0.1
58.0	TEXAS	116	0.2	94.0	DAVIESS	47	0.1
Second Quartile				95.0	HOWARD	46	0.1
Third Quartile				96.0	CALDWELL	45	0.1
59.0	MORGAN	113	0.2	97.0	MARIES	44	0.1
60.0	DALLAS	112	0.2	98.0	CLARK	40	0.1
61.0	CLINTON	111	0.2	99.0	GENTRY	39	0.1
62.5	DENT	109	0.2	100.0	PUTNAM	37	0.1
62.5	NEW MADRID	109	0.2	101.0	OZARK	36	0.1
64.0	LIVINGSTON	104	0.2	102.0	SULLIVAN	35	0.1
65.0	BENTON	100	0.2	103.5	DADE	34	0.1
66.0	PIKE	99	0.2	103.5	HOLT	34	0.1
67.5	MC DONALD	98	0.2	106.0	ATCHISON	29	0.1
67.5	WRIGHT	98	0.2	106.0	SCOTLAND	29	0.1
69.0	OSAGE	92	0.2	106.0	SHANNON	29	0.1
70.0	MONTGOMERY	90	0.2	108.5	CARTER	27	0.1
71.0	GRUNDY	87	0.2	108.5	HICKORY	27	0.1
72.5	BATES	85	0.2	110.0	REYNOLDS	26	0.1
72.5	MACON	85	0.2	111.5	MERCER	23	0.0
74.5	BARTON	84	0.2	111.5	SHELBY	23	0.0
74.5	WAYNE	84	0.2	113.0	WORTH	14	0.0
76.0	CEDAR	82	0.2	114.0	KNOX	12	0.0
77.0	MADISON	81	0.2	115.0	SCHUYLER	8	0.0

TABLE 3.3.15

## 2003 YOUNG DRINKING DRIVER INVOLVED CRASHES

### COUNTY QUARTILE ANALYSIS



<sup>1</sup> LEGEND CATEGORIES ARE BASED ON QUARTILES OF COUNTIES.

RANK	COUNTY	FREQUENCY	PERCENT	RANK	COUNTY	FREQUENCY	PERCENT
1.0	ST. LOUIS	156	13.2	23.5	CHRISTIAN	12	1.0
2.0	JACKSON	127	10.8	23.5	LINCOLN	12	1.0
3.0	ST. CHARLES	65	5.5	23.5	PLATTE	12	1.0
4.0	JEFFERSON	56	4.7	26.5	PETTIS	10	0.8
5.0	BOONE	49	4.2	26.5	PULASKI	10	0.8
6.0	GREENE	48	4.1	First Quartile			
7.0	FRANKLIN	35	3.0	Second Quartile			
8.0	JASPER	25	2.1	30.5	CALLAWAY	9	0.8
9.0	CLAY	23	2.0	30.5	CAPE GIRARDEAU	9	0.8
10.0	BUCHANAN	20	1.7	30.5	HENRY	9	0.8
12.0	JOHNSON	17	1.4	30.5	LAWRENCE	9	0.8
12.0	PHELPS	17	1.4	30.5	LINN	9	0.8
12.0	ST. LOUIS CITY	17	1.4	30.5	RANDOLPH	9	0.8
14.5	CASS	16	1.4	36.5	AUDRAIN	8	0.7
14.5	CRAWFORD	16	1.4	36.5	GASCONADE	8	0.7
17.0	BARRY	15	1.3	36.5	HOWELL	8	0.7
17.0	CAMDEN	15	1.3	36.5	MC DONALD	8	0.7
17.0	COLE	15	1.3	36.5	MADISON	8	0.7
20.0	NEWTON	14	1.2	36.5	POLK	8	0.7
20.0	SCOTT	14	1.2	42.5	LACLEDE	7	0.6
20.0	TANEY	14	1.2	42.5	LAFAYETTE	7	0.6
23.5	BUTLER	12	1.0				

RANK	COUNTY	FREQUENCY	PERCENT	RANK	COUNTY	FREQUENCY	PERCENT
42.5	MARION	7	0.6	77.5	PERRY	3	0.3
42.5	MONITEAU	7	0.6	77.5	RALLS	3	0.3
42.5	PEMISCOT	7	0.6	77.5	RAY	3	0.3
42.5	STODDARD	7	0.6	77.5	STE. GENEVIEVE	3	0.3
48.5	ADAIR	6	0.5	77.5	STONE	3	0.3
48.5	BATES	6	0.5	77.5	VERNON	3	0.3
48.5	CLINTON	6	0.5	77.5	WAYNE	3	0.3
48.5	HARRISON	6	0.5	Third Quartile			
48.5	OREGON	6	0.5	Fourth Quartile			
48.5	SALINE	6	0.5	90.0	ANDREW	2	0.2
54.5	COOPER	5	0.4	90.0	CALDWELL	2	0.2
54.5	DOUGLAS	5	0.4	90.0	DADE	2	0.2
54.5	DUNKLIN	5	0.4	90.0	GRUNDY	2	0.2
54.5	IRON	5	0.4	90.0	LIVINGSTON	2	0.2
54.5	OSAGE	5	0.4	90.0	PUTNAM	2	0.2
54.5	ST. FRANCOIS	5	0.4	90.0	RIPLEY	2	0.2
Second Quartile				90.0	SHELBY	2	0.2
Third Quartile				90.0	WRIGHT	2	0.2
63.5	BENTON	4	0.3	101.0	CLARK	1	0.1
63.5	CARROLL	4	0.3	101.0	DAVISS	1	0.1
63.5	DALLAS	4	0.3	101.0	DENT	1	0.1
63.5	DE KALB	4	0.3	101.0	GENTRY	1	0.1
63.5	HICKORY	4	0.3	101.0	HOLT	1	0.1
63.5	LEWIS	4	0.3	101.0	MONTGOMERY	1	0.1
63.5	MILLER	4	0.3	101.0	OZARK	1	0.1
63.5	MISSISSIPPI	4	0.3	101.0	ST. CLAIR	1	0.1
63.5	MORGAN	4	0.3	101.0	SCOTLAND	1	0.1
63.5	PIKE	4	0.3	101.0	SHANNON	1	0.1
63.5	TEXAS	4	0.3	101.0	SULLIVAN	1	0.1
63.5	WASHINGTON	4	0.3	101.0	WARREN	1	0.1
77.5	BARTON	3	0.3	101.0	WEBSTER	1	0.1
77.5	BOLLINGER	3	0.3	111.5	ATCHISON	0	0.0
77.5	CEDAR	3	0.3	111.5	CARTER	0	0.0
77.5	HOWARD	3	0.3	111.5	CHARITON	0	0.0
77.5	MACON	3	0.3	111.5	KNOX	0	0.0
77.5	MARIES	3	0.3	111.5	MERCER	0	0.0
77.5	MONROE	3	0.3	111.5	REYNOLDS	0	0.0
77.5	NEW MADRID	3	0.3	111.5	SCHUYLER	0	0.0
77.5	NODAWAY	3	0.3	111.5	WORTH	0	0.0

TABLE 3.3.16

## 2003 YOUNG DRIVER INVOLVED CRASHES

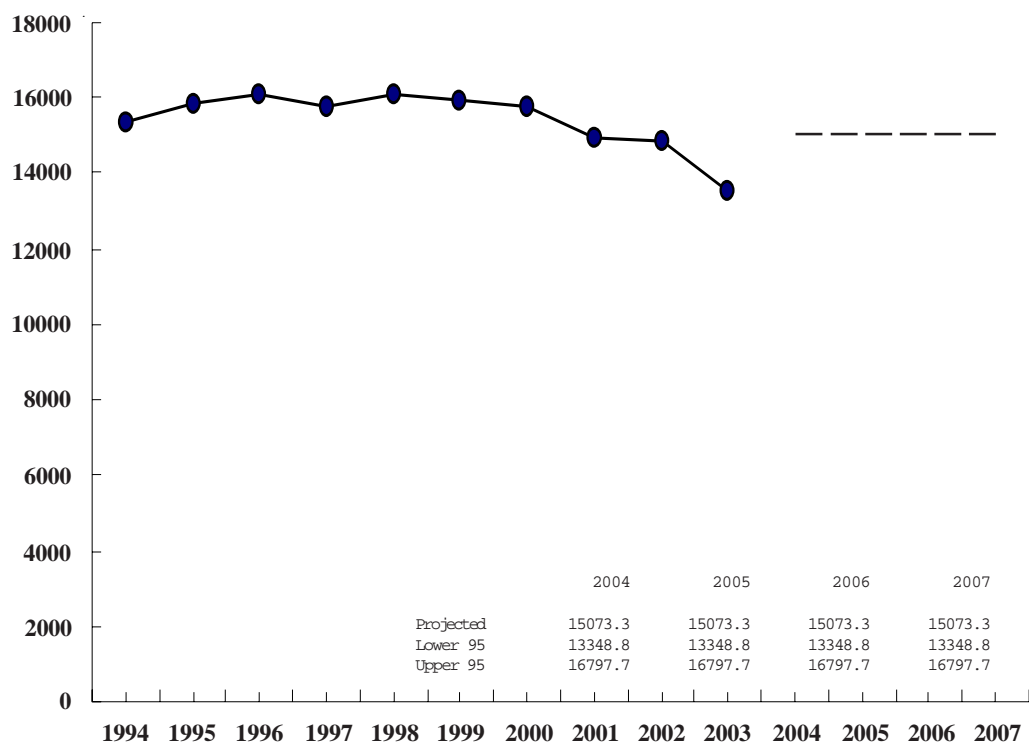
### CITY LISTING

RANK	CITY	FREQUENCY	PERCENT <sup>1</sup>
1.0	ST. LOUIS	2,838	8.4
2.0	KANSAS CITY	2,744	8.1
3.0	SPRINGFIELD	2,461	7.3
4.0	COLUMBIA	1,146	3.4
5.0	INDEPENDENCE	1,116	3.3
6.0	ST. JOSEPH	842	2.5
7.0	LEE'S SUMMIT	814	2.4
8.0	ST. PETERS	734	2.2
9.0	JOPLIN	693	2.1
10.0	ST. CHARLES	641	1.9
11.0	O'FALLON	595	1.8
12.0	CAPE GIRARDEAU	593	1.8
13.0	JEFFERSON CITY	544	1.6
14.0	FLORISSANT	521	1.5
15.0	BLUE SPRINGS	504	1.5
16.0	CHESTERFIELD	457	1.4
17.0	MARYLAND HEIGHTS	389	1.2
18.0	SEDALIA	360	1.1
19.0	KIRKWOOD	343	1.0
20.0	POPLAR BLUFF	309	0.9
21.0	CREVE COEUR	307	0.9
22.0	ROLLA	293	0.9
23.0	ARNOLD	289	0.9
24.0	LIBERTY	286	0.8
25.0	SUNSET HILLS	264	0.8
26.0	HAZELWOOD	245	0.7
27.0	TOWN AND COUNTRY	238	0.7
28.0	BALLWIN	231	0.7
29.0	GLADSTONE	227	0.7
30.0	HANNIBAL	218	0.6
31.5	BRANSON	212	0.6
31.5	RAYTOWN	212	0.6
33.0	BELTON	209	0.6
34.5	JACKSON	201	0.6
34.5	RICHMOND HEIGHTS	201	0.6
36.0	WILDWOOD	199	0.6
37.0	WARRENSBURG	197	0.6
39.0	LEBANON	191	0.6
39.0	BRIDGETON	189	0.6
39.0	WASHINGTON	188	0.6
41.0	FARMINGTON	170	0.5
42.0	WEST PLAINS	163	0.5
43.5	SIKESTON	162	0.5
43.5	UNIVERSITY CITY	162	0.5
45.0	ELLISVILLE	157	0.5
46.0	WEBSTER GROVES	156	0.5
47.0	LADUE	154	0.5

<sup>1</sup>Percentage is based on young driver involved crashes which occurred in Missouri municipalities with populations of 1,000 or more. Only those municipalities comprising 0.5% or more of these crashes are listed.

**TABLE 3.3.17**

# **MISSOURI FATAL AND PERSONAL INJURY YOUNG DRIVER INVOLVED CRASHES ANNUAL TIME SERIES**



**FIGURE 3.3.4**

### 3.4 OLDER DRIVER INVOLVEMENT

This section presents a series of data displays which describe older driver involvement in Missouri's traffic crash experience. Older driver traffic crashes are defined as any crash in which one or more drivers of motorized vehicles directly involved in the traffic crash were 55 years or older. Data displays also are provided which identify characteristics of these older drivers.

#### 2003 SUMMARY ANALYSIS

- Of all 2003 Missouri traffic crashes, 27.7% involved an older driver. Of all fatal traffic crashes, 29.3% involved an older driver. A total of 368 persons were killed and 18,290 were injured in traffic crashes involving older drivers.
- There was an increase of 0.9% in the rate of change when comparing 2003 older driver traffic crashes with those in 2002. There was an increase of 12.6% when comparing 2003 fatal older driver traffic crashes with 2002.
- In 2003, one person was killed or injured in older driver related traffic crashes every 28.2 minutes in the State of Missouri.
- Of all older driver related traffic crashes, the first harmful event in 84.3% of the incidents involved one motor vehicle in transport striking another motor vehicle in transport. In older driver fatal traffic crashes, 58.5% involved one motor vehicle in transport striking another motor vehicle in transport and 24.0% of the cases involved a motor vehicle striking a fixed object.
- Of all 2003 older driver crashes, 67.4% occurred in an urban area and 32.6% occurred in a rural area of the State. However, 71.2% of the fatal older driver crashes occurred in a rural area.
- Of all older driver traffic crashes, 87.2% occurred from 7:00 A.M. through 6:59 P.M.
- Of all older drivers involved in traffic crashes, 58.4% were male and 41.6% were female. The average age of older drivers (55 years and older) was 66.2 years.
- Of the older drivers, 89.1% had a Missouri driver's license, 10.4% had an out-of-state driver's license, and 0.5% were unlicensed at the time of the crash.
- Of the older drivers, 58.9% were driving an automobile and 17.3% were driving a pickup truck at the time of the crash.

## 2003 MISSOURI TRAFFIC CRASHES

### OLDER DRIVER INVOLVEMENT

	FATAL	%	PERSONAL INJURY	%	PROPERTY DAMAGE	%	TOTAL	%	TOTAL KILLED	TOTAL NUMBER <sup>1</sup> INJURED	OLDER DRIVERS <sup>2</sup> KILLED	OLDER DRIVERS <sup>2</sup> INJURED
OLDER DRIVER INVOLVED	313	29.3	11,650	26.7	31,878	28.0	43,841	27.7	368	18,290	223	7,182
NO OLDER DRIVER INVOLVED	755	70.7	31,932	73.3	81,922	72.0	114,609	72.3	835	47,584	-	-
UNKNOWN <sup>3</sup>	27	-	2,384	-	21,763	-	24,174	-	29	3,247	-	-
<b>TOTAL</b>	<b>1,095</b>	<b>100.0</b>	<b>45,966</b>	<b>100.0</b>	<b>135,563</b>	<b>100.0</b>	<b>182,624</b>	<b>100.0</b>	<b>1,232</b>	<b>69,121</b>	<b>223</b>	<b>7,182</b>

<sup>1</sup>This statistic indicates the total number of persons killed and injured in a crash where one or more older drivers were involved.

<sup>2</sup>This statistic indicates the number of older drivers killed and injured.

<sup>3</sup>Crashes were classified as unknown if the following conditions exist: none of the known drivers involved in the accident was 55 years of age and older and the ages of one or more drivers involved in the crash was not known.

**TABLE 3.4.1**

### 2002 and 2003 OLDER DRIVER INVOLVED CRASH ANALYSIS

	2002	2003	RATE OF CHANGE
FATAL	278	313	+ 12.6
PERSONAL INJURY	11,672	11,650	- 0.2
PROPERTY DAMAGE	31,511	31,878	+ 1.2
TOTAL	43,461	43,841	+ 0.9

**TABLE 3.4.2**

### 2003 OLDER DRIVER INVOLVED CRASHES

#### CRASH TYPE BY CRASH SEVERITY

	FATAL	%	PERSONAL INJURY	%	PROPERTY DAMAGE	%	TOTAL	%
ANIMAL	2	0.6	57	0.5	679	2.1	738	1.7
BICYCLIST	1	0.3	132	1.1	25	0.1	158	0.4
FIXED OBJECT	75	24.0	1,169	10.0	1,931	6.1	3,175	7.2
OTHER OBJECT	3	1.0	35	0.3	249	0.8	287	0.7
PEDESTRIAN	9	2.9	192	1.7	13	0.0	214	0.5
TRAIN	5	1.6	10	0.1	8	0.0	23	0.1
VEHICLE IN TRANSPORT	183	58.5	9,598	82.4	27,153	85.2	36,934	84.3
VEHICLE ON OTHER ROADWAY	9	2.9	57	0.5	77	0.2	143	0.3
PARKED VEHICLE	4	1.3	135	1.2	1,429	4.5	1,568	3.6
NONCOLLISION OVERTURN	21	6.7	238	2.0	124	0.4	383	0.9
NONCOLLISION OTHER	1	0.3	27	0.2	190	0.6	218	0.5
<b>TOTAL</b>	313	100.0	11,650	100.0	31,878	100.0	43,841	100.0

**TABLE 3.4.3**



### 2003 OLDER DRIVER INVOLVED CRASHES

#### AREA CLASSIFICATION BY CRASH SEVERITY

	FATAL	%	PERSONAL INJURY	%	PROPERTY DAMAGE	%	TOTAL	%
URBAN	90	28.8	7,382	63.4	22,059	69.2	29,531	67.4
RURAL	223	71.2	4,268	36.6	9,819	30.8	14,310	32.6
<b>TOTAL</b>	<b>313</b>	<b>100.0</b>	<b>11,650</b>	<b>100.0</b>	<b>31,878</b>	<b>100.0</b>	<b>43,841</b>	<b>100.0</b>

**TABLE 3.4.4**

### 2003 OLDER DRIVER INVOLVED CRASHES

#### ROAD CURVATURE BY CRASH SEVERITY

	FATAL	%	PERSONAL INJURY	%	PROPERTY DAMAGE	%	TOTAL	%
STRAIGHT	232	74.4	10,091	87.3	27,165	89.5	37,488	88.8
CURVE	80	25.6	1,468	12.7	3,183	10.5	4,731	11.2
UNKNOWN	1	-	91	-	1,530	-	1,622	-
<b>TOTAL</b>	<b>313</b>	<b>100.0</b>	<b>11,650</b>	<b>100.0</b>	<b>31,878</b>	<b>100.0</b>	<b>43,841</b>	<b>100.0</b>

**TABLE 3.4.5**

### 2003 OLDER DRIVER INVOLVED CRASHES

#### ROAD INCLINE BY CRASH SEVERITY

	FATAL	%	PERSONAL INJURY	%	PROPERTY DAMAGE	%	TOTAL	%
LEVEL	166	53.2	7,916	68.8	22,317	74.0	30,399	72.5
HILL	130	41.7	3,244	28.2	7,085	23.5	10,459	24.9
CREST	16	5.1	340	3.0	746	2.5	1,102	2.6
UNKNOWN	1	-	150	-	1,730	-	1,881	-
<b>TOTAL</b>	<b>313</b>	<b>100.0</b>	<b>11,650</b>	<b>100.0</b>	<b>31,878</b>	<b>100.0</b>	<b>43,841</b>	<b>100.0</b>

**TABLE 3.4.6**

## 2003 OLDER DRIVER INVOLVED CRASHES

### ROAD CONDITIONS BY CRASH SEVERITY

	FATAL	%	PERSONAL INJURY	%	PROPERTY DAMAGE	%	TOTAL	%
DRY	263	85.4	9,377	80.8	25,461	80.4	35,101	80.6
WET	37	12.0	1,898	16.4	5,204	16.4	7,139	16.4
SNOW	3	1.0	226	2.0	706	2.2	935	2.2
ICE	3	1.0	75	0.7	211	0.7	289	0.7
SLUSH	1	0.3	20	0.2	61	0.2	82	0.2
MUD	0	0.0	2	0.0	5	0.0	7	0.0
STANDING WATER	1	0.3	3	0.0	9	0.0	13	0.0
MOVING WATER	0	0.0	1	0.0	2	0.0	3	0.0
UNKNOWN	5	-	48	-	219	-	272	-
<b>TOTAL</b>	313	100.0	11,650	100.0	31,878	100.0	43,841	100.0

**TABLE 3.4.7**

## 2003 OLDER DRIVER INVOLVED CRASHES

### HIGHWAY CLASSIFICATION BY CRASH SEVERITY

	FATAL	%	PERSONAL INJURY	%	PROPERTY DAMAGE	%	TOTAL	%
INTERSTATE	47	15.0	1,231	10.6	3,298	10.4	4,576	10.4
U.S. HIGHWAY	68	21.7	1,604	13.8	3,500	11.0	5,172	11.8
STATE NUMBERED	85	27.2	2,341	20.1	5,218	16.4	7,644	17.4
SINGLE STATE LETTERED	35	11.2	662	5.7	1,184	3.7	1,881	4.3
DOUBLE STATE LETTERED	14	4.5	303	2.6	631	2.0	948	2.2
OUTER ROAD	2	0.6	109	0.9	279	0.9	390	0.9
COUNTY ROAD	19	6.1	772	6.6	2,192	6.9	2,983	6.8
CITY STREET	34	10.9	4,188	36.0	13,953	43.8	18,175	41.5
INTERSTATE LOOP	0	0.0	68	0.6	200	0.6	268	0.6
OTHER <sup>1</sup>	9	2.9	372	3.2	1,423	4.5	1,804	4.1
<b>TOTAL</b>	313	100.0	11,650	100.0	31,878	100.0	43,841	100.0

<sup>1</sup> "Other" includes types of roads that are maintained by the State as well as by local jurisdictions.

**TABLE 3.4.8**

**2003 OLDER DRIVER INVOLVED CRASHES**

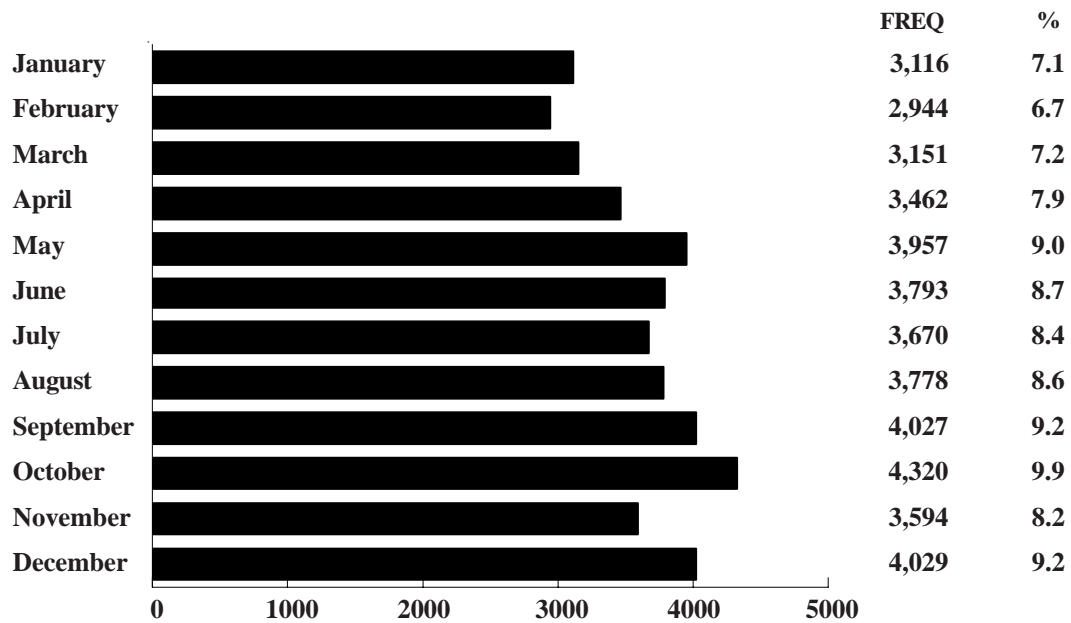
**HIGHWAY CLASSIFICATION BY AREA CLASSIFICATION AND CRASH SEVERITY**

	URBAN								RURAL							
	FATAL	%	PERSONAL INJURY	%	PROPERTY DAMAGE	%	TOTAL	%	FATAL	%	PERSONAL INJURY	%	PROPERTY DAMAGE	%	TOTAL	%
INTERSTATE	19	21.1	748	10.1	2,064	9.4	2,831	9.6	28	12.6	483	11.3	1,234	12.6	1,745	12.2
U.S. HIGHWAY	10	11.1	704	9.5	1,856	8.4	2,570	8.7	58	26.0	900	21.1	1,644	16.7	2,602	18.2
STATE NUMBERED	16	17.8	1,079	14.6	2,794	12.7	3,889	13.2	69	30.9	1,262	29.6	2,424	24.7	3,755	26.2
SINGLE STATE LETTERED	2	2.2	185	2.5	405	1.8	592	2.0	33	14.8	477	11.2	779	7.9	1,289	9.0
DOUBLE STATE LETTERED	2	2.2	109	1.5	286	1.3	397	1.3	12	5.4	194	4.6	345	3.5	551	3.9
OUTER ROAD	0	0.0	68	0.9	192	0.9	260	0.9	2	0.9	41	1.0	87	0.9	130	0.9
COUNTY ROAD	3	3.3	240	3.3	757	3.4	1,000	3.4	16	7.2	532	12.5	1,435	14.6	1,983	13.9
CITY STREET	32	35.6	3,886	52.6	12,473	56.5	16,391	55.5	2	0.9	302	7.1	1,480	15.1	1,784	12.5
INTERSTATE LOOP	0	0.0	60	0.8	167	0.8	227	0.8	0	0.0	8	0.2	33	0.3	41	0.3
OTHER¹	6	6.7	303	4.1	1,065	4.8	1,374	4.7	3	1.4	69	1.6	358	3.7	430	3.0
TOTAL	90	100.0	7,382	100.0	22,059	100.0	29,531	100.0	223	100.0	4,268	100.0	9,819	100.0	14,310	100.0

<sup>1</sup> "Other" includes types of roads that are maintained by the State as well as by local jurisdictions.

**TABLE 3.4.9**

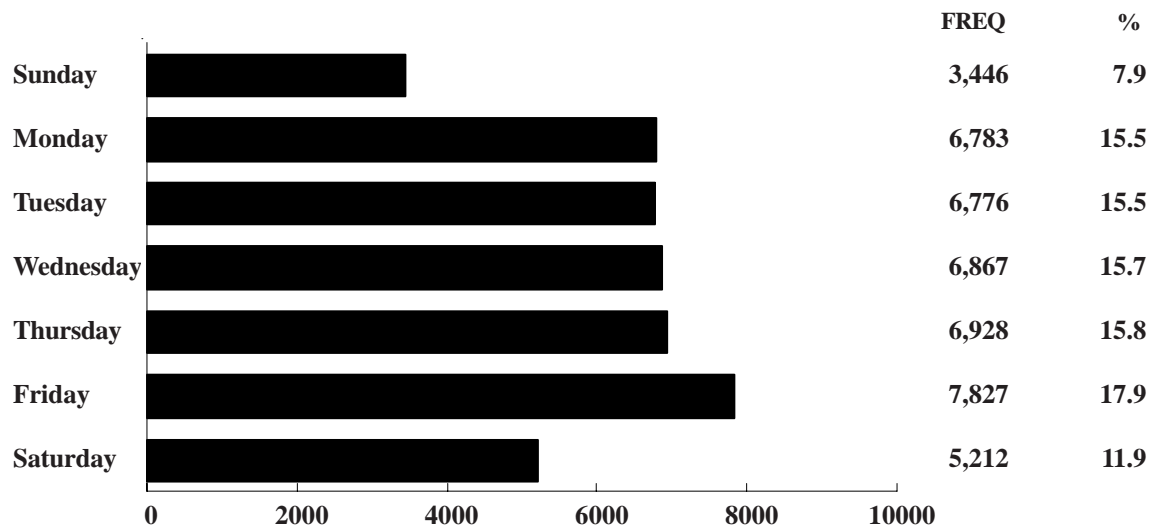
**2003 MISSOURI OLDER DRIVER INVOLVED CRASHES  
MONTH OF YEAR**



FREQUENCY

FIGURE 3.4.1

**2003 MISSOURI OLDER DRIVER INVOLVED CRASHES  
DAY OF WEEK**

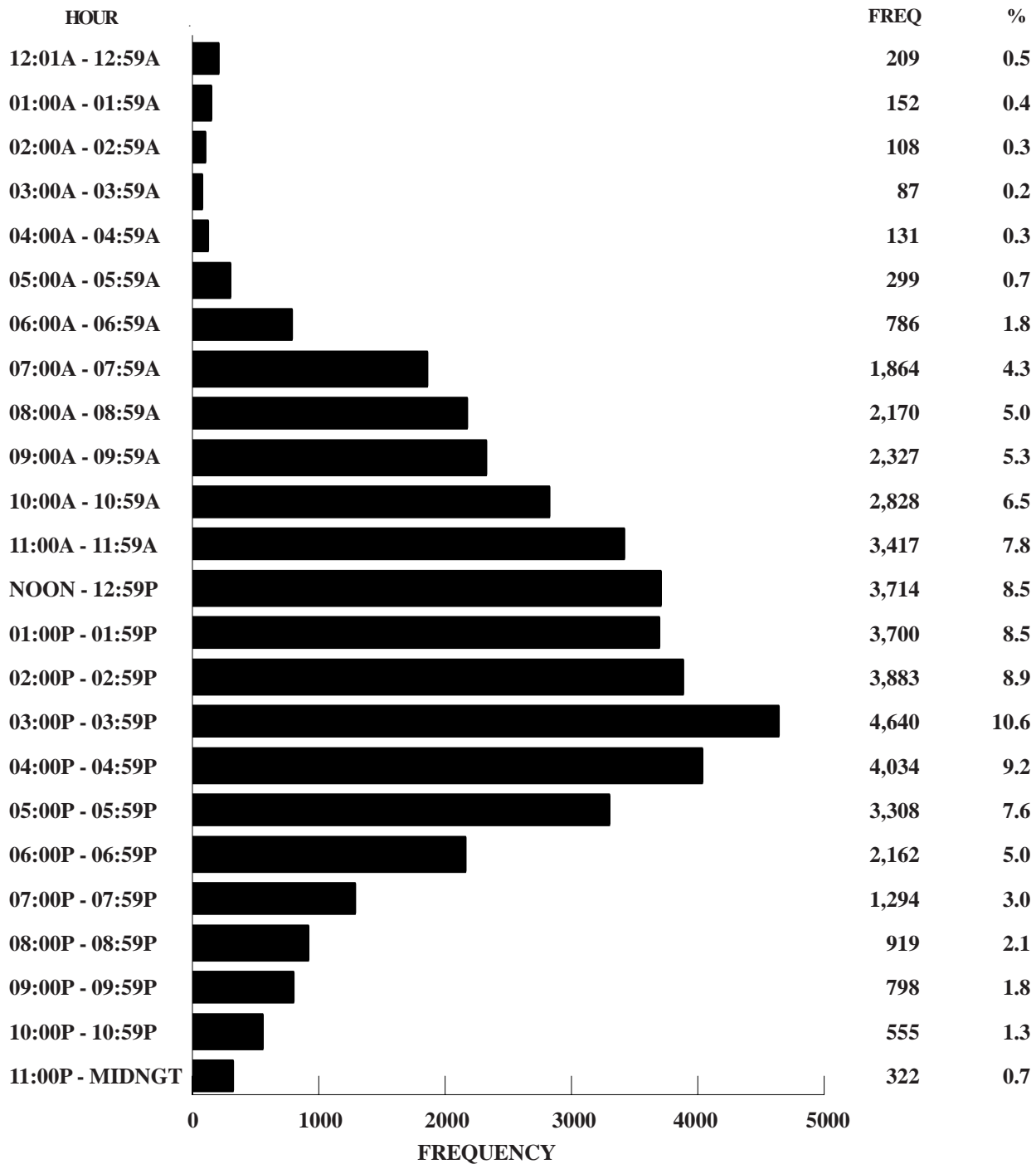


FREQUENCY

Unknown Data Not Included

FIGURE 3.4.2

**2003 MISSOURI OLDER DRIVER INVOLVED CRASHES  
HOUR OF DAY**



Unknown Data Not Included

**FIGURE 3.4.3**

## 2003 MISSOURI OLDER DRIVER CRASHES

### TYPE OF CIRCUMSTANCE INVOLVED BY CRASH SEVERITY AND PERSON CLASSIFICATION<sup>1</sup>

FATAL OLDER DRIVER CRASHES = 313				TOTAL OLDER DRIVER CRASHES = 43,841		
	OLDER DRIVER/ VEHICLE	OTHER DRIVER/ VEHICLE/PED.	TOTAL FATAL	OLDER DRIVER/ VEHICLE	OTHER DRIVER/ VEHICLE/PED.	TOTAL CRASHES
VEHICLE DEFECTS	1.0	0.3	1.3	1.4	1.1	2.5
TRAFFIC CONTROL INOPERATIVE / MISSING	0.0	0.0	0.0	0.1	0.1	0.2
IMPROPERLY STOPPED ON ROADWAY	0.3	0.6	1.0	0.3	0.3	0.6
EXCEEDING SPEED LIMIT / TOO FAST FOR CONDITIONS	11.8	8.6	20.4	5.1	5.6	10.5
IMPROPER PASSING	0.3	1.0	1.3	0.8	0.9	1.7
VIOLATION OF STOP SIGN	3.8	1.6	5.4	3.1	2.7	5.7
WRONG SIDE NOT PASSING	8.9	6.7	15.7	0.9	0.7	1.6
FOLLOWING TOO CLOSE	1.9	1.9	3.8	6.8	9.7	16.2
IMPROPER SIGNAL	0.0	0.0	0.0	0.2	0.1	0.3
IMPROPER BACKING	0.0	0.6	0.6	2.3	1.0	3.3
IMPROPER TURN	2.2	0.0	2.2	2.8	1.5	4.3
IMPROPER LANE USAGE / CHANGE	6.7	5.1	11.8	5.1	3.3	8.1
WRONG WAY ONE-WAY STREET	1.9	0.0	1.9	0.1	0.1	0.2
IMPROPER START FROM PARK	0.0	0.0	0.0	0.2	0.1	0.4
IMPROPERLY PARKED	0.0	0.0	0.0	0.1	0.3	0.3
FAILED TO YIELD	22.7	4.8	27.5	16.0	9.6	25.2
DRINKING	3.5	3.5	6.7	1.0	0.8	1.7
DRUGS	0.0	1.3	1.3	0.1	0.1	0.2
PHYSICAL IMPAIRMENT	10.2	1.0	11.2	1.9	0.4	2.2
INATTENTION	22.7	7.3	29.4	17.7	14.5	30.7

<sup>1</sup>This table identifies the percentage of older driver crashes having a specific type of circumstance which contributed to the cause of the crash. This table further defines the percentage of crashes where the contributing circumstance was associated with the older driver or his vehicle as well as those attributed to other persons and vehicles in the crash. For instance, when examining speed involvement in 2003 Missouri fatal older driver crashes, it was found that an older driver was speeding in 11.8% of the crashes. In 8.6% of the crashes another driver was speeding. In 20.4% of the crashes either an older driver, another driver, or both drivers were speeding.

**TABLE 3.4.10**

## OLDER DRIVERS IN 2003 MISSOURI CRASHES

### SEX OF DRIVER BY CRASH SEVERITY

	FATAL	%	PERSONAL INJURY	%	PROPERTY DAMAGE	%	TOTAL	%
MALE	256	73.4	7,575	58.4	19,732	58.3	27,563	58.4
FEMALE	93	26.6	5,404	41.6	14,125	41.7	19,622	41.6
UNKNOWN	0	-	0	-	1,065	-	1,065	-
<b>TOTAL</b>	349	100.0	12,979	100.0	34,922	100.0	48,250	100.0

**TABLE 3.4.11**

## OLDER DRIVERS IN 2003 MISSOURI CRASHES

### AGE OF DRIVER BY CRASH SEVERITY

	FATAL	%	PERSONAL INJURY	%	PROPERTY DAMAGE	%	TOTAL	%
<b>AVERAGE AGE OF OLDER DRIVER<sup>1</sup></b>	68.4	-	66.1	-	66.2	-	66.2	-
55 - 59 YEARS	86	24.6	3,882	29.9	10,496	30.1	14,464	30.0
60 - 64 YEARS	65	18.6	2,774	21.4	7,356	21.1	10,195	21.1
65 - 69 YEARS	50	14.3	2,049	15.8	5,341	15.3	7,440	15.4
70 - 74 YEARS	49	14.0	1,593	12.3	4,492	12.9	6,134	12.7
75 YEARS AND OVER	99	28.4	2,681	20.7	7,237	20.7	10,017	20.8
<b>TOTAL</b>	349	100.0	12,979	100.0	34,922	100.0	48,250	100.0

<sup>1</sup> Average age is based on only drivers 55 years of age and over.

**TABLE 3.4.12**

# **OLDER DRIVERS IN 2003 MISSOURI CRASHES**

## **DRIVER'S LICENSE STATE AND TYPE BY CRASH SEVERITY**

	<b>FATAL</b>	<b>%</b>	<b>PERSONAL INJURY</b>	<b>%</b>	<b>PROPERTY DAMAGE</b>	<b>%</b>	<b>TOTAL</b>	<b>%</b>
<b>MISSOURI</b>								
LEARNER'S PERMIT	0	0.0	2	0.0	12	0.0	14	0.0
OPERATOR'S LICENSE	253	72.9	10,588	82.6	27,657	82.3	38,498	82.3
MOTORCYCLE ONLY	0	0.0	1	0.0	0	0.0	1	0.0
COMERCIAL DRIVER'S LICENSE	41	11.8	824	6.4	2,298	6.8	3,163	6.8
SUBTOTAL	294	84.7	11,415	89.0	29,967	89.2	41,676	89.1
<b>OUT STATE</b>								
LEARNER'S PERMIT	0	0.0	0	0.0	2	0.0	2	0.0
OPERATOR'S LICENSE	32	9.2	1,086	8.5	2,775	8.3	3,893	8.3
MOTORCYCLE ONLY	0	0.0	0	0.0	0	0.0	0	0.0
COMMERCIAL DRIVER'S LICENSE	15	4.3	226	1.8	712	2.1	953	2.0
SUBTOTAL	47	13.5	1,312	10.2	3,489	10.4	4,848	10.4
UNLICENSED	6	1.7	94	0.7	133	0.4	233	0.5
UNKNOWN	2	-	158	-	1,333	-	1,493	-
<b>TOTAL</b>	<b>349</b>	<b>100.0</b>	<b>12,979</b>	<b>100.0</b>	<b>34,922</b>	<b>100.0</b>	<b>48,250</b>	<b>100.0</b>

**TABLE 3.4.13**



**OLDER DRIVERS IN 2003 MISSOURI CRASHES**

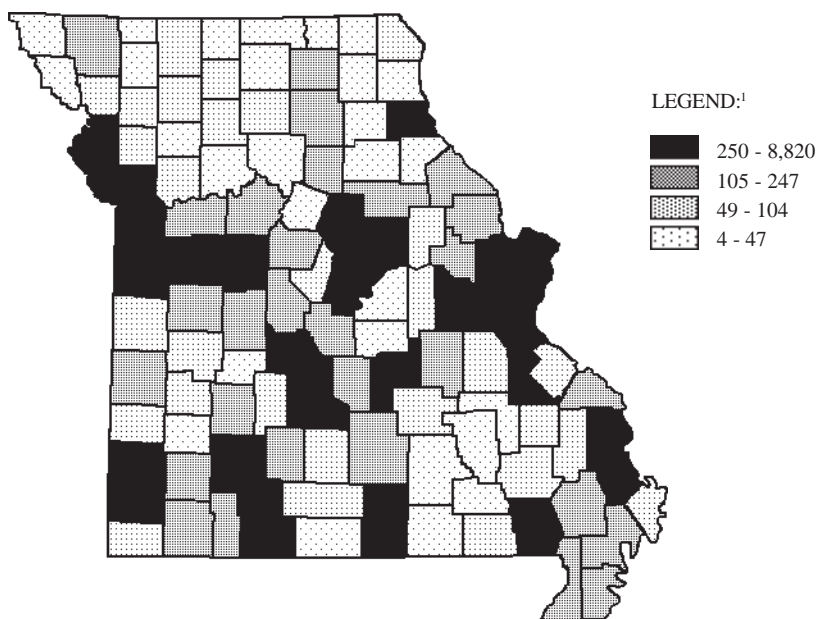
**TYPE OF VEHICLE DRIVEN BY CRASH SEVERITY**

	<b>FATAL</b>	<b>%</b>	<b>PERSONAL INJURY</b>	<b>%</b>	<b>PROPERTY DAMAGE</b>	<b>%</b>	<b>TOTAL</b>	<b>%</b>
AUTOMOBILE	178	51.0	7,693	59.3	20,518	58.9	28,389	58.9
SPORT UTILITY VEHICLE	19	5.4	1,059	8.2	2,896	8.3	3,974	8.3
LIMOUSINE	0	0.0	0	0.0	8	0.0	8	0.0
VAN	25	7.2	1,134	8.8	3,069	8.8	4,228	8.8
BUS	2	0.6	53	0.4	225	0.7	280	0.6
SCHOOL BUS	3	0.9	54	0.4	258	0.7	315	0.7
MOTORCYCLE	15	4.3	169	1.3	26	0.1	210	0.4
MOPED	0	0.0	4	0.0	0	0.0	4	0.0
MOTOR HOME / CAMPER	1	0.3	13	0.1	134	0.4	148	0.3
FARM EQUIPMENT	1	0.3	21	0.2	44	0.1	66	0.1
CONSTRUCTION EQUIPMENT	0	0.0	5	0.0	23	0.1	28	0.1
OTHER TRANSPORT DEVICE	4	1.2	14	0.1	36	0.1	54	0.1
PICKUP TRUCK	66	18.9	2,237	17.3	6,039	17.3	8,342	17.3
OTHER TRUCKS	34	9.7	504	3.9	1,590	4.6	2,128	4.4
ALL TERRAIN VEHICLE	1	0.3	5	0.0	0	0.0	6	0.0
UNKNOWN	0	-	14	-	56	-	70	-
<b>TOTAL</b>	<b>349</b>	<b>100.0</b>	<b>12,979</b>	<b>100.0</b>	<b>34,922</b>	<b>100.0</b>	<b>48,250</b>	<b>100.0</b>

**TABLE 3.4.14**

## 2003 OLDER DRIVER INVOLVED CRASHES

### COUNTY QUARTILE ANALYSIS



<sup>1</sup>LEGEND CATEGORIES ARE BASED ON QUARTILES OF COUNTIES.

RANK	COUNTY	FREQUENCY	PERCENT	RANK	COUNTY	FREQUENCY	PERCENT
1.0	ST. LOUIS	8,820	20.1	22.0	NEWTON	360	0.8
2.0	JACKSON	6,069	13.8	23.0	LACLEDE	319	0.7
3.0	ST. LOUIS CITY	3,505	8.0	24.0	MARION	293	0.7
4.0	GREENE	2,496	5.7	25.0	CALLAWAY	271	0.6
5.0	ST. CHARLES	1,947	4.4	26.0	CHRISTIAN	269	0.6
6.0	CLAY	1,445	3.3	27.0	HOWELL	260	0.6
7.0	JEFFERSON	1,166	2.7	28.0	JOHNSON	255	0.6
8.0	JASPER	1,032	2.4	29.0	SCOTT	250	0.6
9.0	BOONE	910	2.1	First Quartile			
10.0	CAPE GIRARDEAU	792	1.8	Second Quartile			
11.0	FRANKLIN	756	1.7	30.0	RANDOLPH	247	0.6
12.0	BUCHANAN	743	1.7	31.0	DUNKLIN	237	0.5
13.0	TANEY	548	1.2	32.0	PULASKI	225	0.5
14.0	COLE	546	1.2	33.0	LAWRENCE	213	0.5
15.0	PLATTE	466	1.1	34.0	LAFAYETTE	205	0.5
16.0	CASS	464	1.1	35.0	LINCOLN	203	0.5
17.0	BUTLER	435	1.0	36.0	BARRY	202	0.5
18.0	ST. FRANCOIS	428	1.0	37.0	POLK	195	0.4
19.0	PHELPS	398	0.9	38.5	STONE	189	0.4
20.5	CAMDEN	361	0.8	38.5	WARREN	189	0.4
20.5	PETTIS	361	0.8				

RANK	COUNTY	FREQUENCY	PERCENT	RANK	COUNTY	FREQUENCY	PERCENT
40.0	HENRY	173	0.4	77.0	ST. CLAIR	67	0.2
41.0	STODDARD	170	0.4	79.0	LINN	66	0.2
42.0	COOPER	168	0.4	80.5	DE KALB	64	0.1
43.0	CRAWFORD	164	0.4	80.5	WAYNE	64	0.1
44.0	WEBSTER	163	0.4	82.0	HARRISON	63	0.1
45.0	AUDRAIN	161	0.4	83.0	DOUGLAS	61	0.1
46.0	VERNON	159	0.4	84.0	CEDAR	60	0.1
47.0	NEW MADRID	158	0.4	85.0	BOLLINGER	53	0.1
48.0	SALINE	155	0.4	86.0	CLARK	50	0.1
49.0	MILLER	154	0.4	87.0	DAVIESS	49	0.1
50.0	PERRY	146	0.3	Third Quartile			
51.0	BENTON	134	0.3	Fourth Quartile			
52.0	NODAWAY	128	0.3	88.5	OREGON	47	0.1
53.0	PEMISCOT	125	0.3	88.5	RALLS	47	0.1
54.0	MORGAN	124	0.3	91.0	LEWIS	45	0.1
55.5	ADAIR	116	0.3	91.0	MARIES	45	0.1
55.5	TEXAS	116	0.3	91.0	OSAGE	45	0.1
57.0	MACON	112	0.3	93.0	HICKORY	43	0.1
58.0	PIKE	105	0.2	94.0	IRON	42	0.1
Second Quartile				95.0	MONROE	41	0.1
Third Quartile				97.0	CARROLL	38	0.1
59.0	GASCONADE	104	0.2	97.0	HOWARD	38	0.1
60.5	RAY	95	0.2	97.0	OZARK	38	0.1
60.5	WASHINGTON	95	0.2	99.5	CALDWELL	32	0.1
62.5	LIVINGSTON	94	0.2	99.5	CARTER	32	0.1
62.5	STE. GENEVIEVE	94	0.2	101.5	SHANNON	31	0.1
64.5	DENT	93	0.2	101.5	SHELBY	31	0.1
64.5	MONTGOMERY	93	0.2	103.0	CHARITON	29	0.1
66.0	DALLAS	92	0.2	104.0	REYNOLDS	28	0.1
67.0	BATES	84	0.2	105.5	SCOTLAND	26	0.1
68.0	MONITEAU	83	0.2	105.5	SULLIVAN	26	0.1
69.5	MC DONALD	80	0.2	108.5	GENTRY	24	0.1
69.5	WRIGHT	80	0.2	108.5	HOLT	24	0.1
71.0	CLINTON	76	0.2	108.5	MERCER	24	0.1
72.0	GRUNDY	75	0.2	108.5	PUTNAM	24	0.1
73.0	MISSISSIPPI	74	0.2	111.0	DADE	20	0.0
74.5	BARTON	68	0.2	112.0	ATCHISON	15	0.0
74.5	RIPLEY	68	0.2	113.0	SCHUYLER	14	0.0
77.0	ANDREW	67	0.2	114.0	KNOX	8	0.0
77.0	MADISON	67	0.2	115.0	WORTH	4	0.0

**TABLE 3.4.15**

## 2003 OLDER DRIVER INVOLVED CRASHES

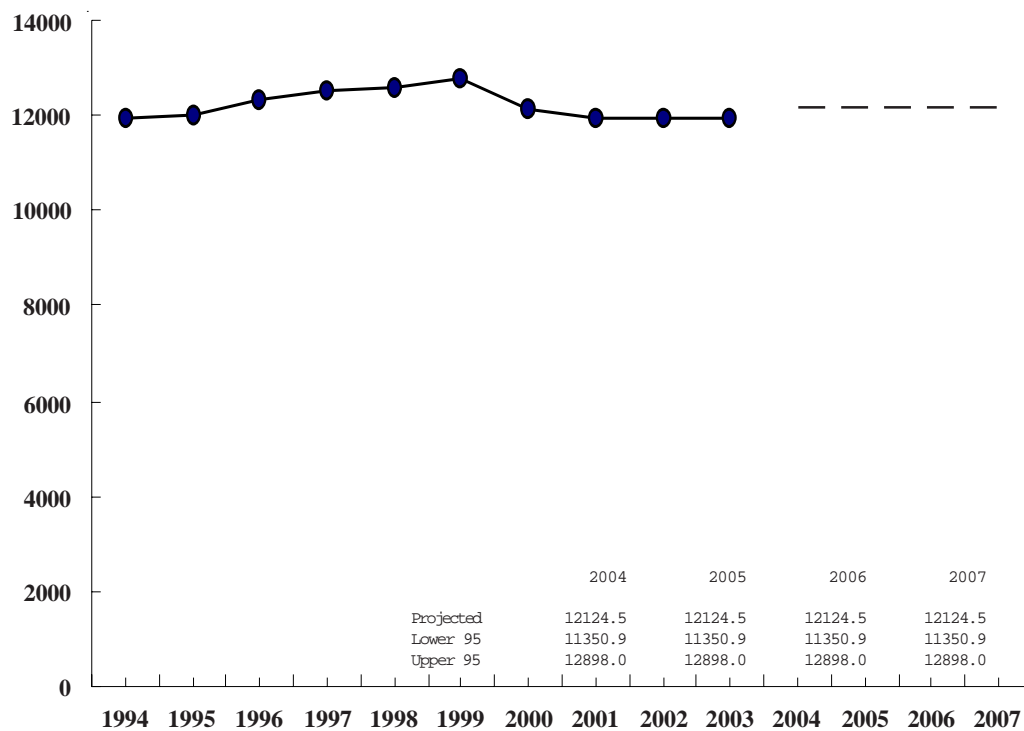
### CITY LISTING

RANK	CITY	FREQUENCY	PERCENT <sup>1</sup>
1.0	KANSAS CITY	4,459	13.4
2.0	ST. LOUIS	3,505	10.6
3.0	SPRINGFIELD	2,147	6.5
4.0	INDEPENDENCE	1,015	3.1
5.0	JOPLIN	726	2.2
6.0	COLUMBIA	704	2.1
7.0	ST. JOSEPH	690	2.1
8.0	LEE'S SUMMIT	566	1.7
9.0	CAPE GIRARDEAU	523	1.6
10.0	FLORISSANT	522	1.6
11.0	ST. CHARLES	517	1.6
12.0	CREVE COEUR	463	1.4
13.0	JEFFERSON CITY	451	1.4
14.0	ST. PETERS	450	1.4
15.0	CHESTERFIELD	415	1.2
16.0	MARYLAND HEIGHTS	382	1.2
17.0	KIRKWOOD	375	1.1
18.0	O'FALLON	361	1.1
19.0	BRANSON	301	0.9
20.0	POPLAR BLUFF	298	0.9
21.0	SEDALIA	292	0.9
22.0	BLUE SPRINGS	291	0.9
23.0	BRIDGETON	272	0.8
24.0	TOWN AND COUNTRY	268	0.8
25.0	HAZELWOOD	265	0.8
26.0	RAYTOWN	261	0.8
27.0	UNIVERSITY CITY	260	0.8
28.0	SUNSET HILLS	253	0.8
29.0	ROLLA	239	0.7
30.0	RICHMOND HEIGHTS	223	0.7
31.0	HANNIBAL	211	0.6
32.0	LEBANON	201	0.6
33.0	LIBERTY	199	0.6
34.0	GLADSTONE	198	0.6
35.0	SIKESTON	197	0.6
36.0	MOBERLY	186	0.6
37.0	ARNOLD	182	0.5
38.0	CLAYTON	178	0.5
39.0	FARMINGTON	170	0.5
40.0	WEBSTER GROVES	167	0.5
41.0	NORTH KANSAS CITY	166	0.5
42.0	WASHINGTON	165	0.5
43.0	BALLWIN	158	0.5
44.0	LADUE	154	0.5
45.0	BERKELEY	153	0.5
46.0	OVERLAND	152	0.5

<sup>1</sup>Percentage is based on young driver involved crashes which occurred in Missouri municipalities with populations of 1,000 or more. Only those municipalities comprising 0.5% or more of these crashes are listed.

**TABLE 3.4.16**

# **MISSOURI FATAL AND PERSONAL INJURY OLDER DRIVER INVOLVED CRASHES ANNUAL TIME SERIES**



**FIGURE 3.4.4**

### 3.5 COMMERCIAL MOTOR VEHICLE INVOLVEMENT

***This section presents a series of data displays which identify commercial motor vehicle involvement in Missouri's traffic crash activity. Commercial motor vehicle traffic crashes are defined as any crash in which one or more commercial motor vehicles were directly involved in the incident. Commercial motor vehicles include trucks having a Gross Vehicle Weight Rating of 10,001 pounds or more, buses or school buses having occupant capacities of 16 or more, and vehicles displaying hazardous material placards. This is a change to the definition used in previous editions of the Compendium. Comparisons to previous years may not be appropriate. Data displays also are provided which describe characteristics of the commercial motor vehicle drivers in these traffic crashes.***

#### 2003 SUMMARY ANALYSIS

- Of all 2003 Missouri traffic crashes, 10.1% involved a commercial motor vehicle. Of all fatal traffic crashes, 16.4% involved a commercial motor vehicle. A total of 207 persons were killed and 5,829 were injured in commercial motor vehicle crashes.
- There was a decrease of 3.8% in the rate of change when comparing all 2003 commercial motor vehicle related traffic crash activity with that in 2002. There was a decrease of 6.3% when comparing 2003 fatal commercial motor vehicle traffic crashes with 2002.
- In 2003, one person was killed or injured in a commercial motor vehicle related crash every 1.5 hours in the State of Missouri.
- Of all 2003 commercial motor vehicle crashes, the first harmful event in 71.4% of the cases involved one motor vehicle in transport striking another motor vehicle in transport. In 12.5% of the cases, it involved a motor vehicle striking a fixed object.
- Of all 2003 commercial motor vehicle involved crashes, 57.7% occurred in an urban area of the State and 42.3% occurred in a rural area. However, in those cases where commercial motor vehicles were involved in fatal crashes 77.1% occurred in rural area.
- Of all commercial motor vehicles in 2003 traffic crashes, 38.1% were non-placarded truck-tractors with one unit, 32.1% were non-placarded single unit trucks, and 4.8% were non-placarded school buses.
- Of all commercial motor vehicle drivers in 2003 traffic crashes, 90.6% were male and 9.4% were female. The average age of commercial motor vehicle drivers was 42.0 years.
- Of all commercial motor vehicle drivers in these crashes, 70.6% had a Missouri driver's license, 28.7% had an out-of-state driver's license, and 0.7% were unlicensed at the time of the traffic crash.

## 2003 MISSOURI TRAFFIC CRASHES

### COMMERCIAL MOTOR VEHICLE INVOLVEMENT

	FATAL	%	PERSONAL INJURY	%	PROPERTY DAMAGE	%	TOTAL	%	TOTAL NUMBER <sup>1</sup>		COMM. MOTOR VEH. DRIVERS/PASSENGERS <sup>2</sup>	
									KILLED	INJURED	KILLED	INJURED
COMMERCIAL MOTOR VEHICLE INVOLVED	179	16.4	3,645	8.0	14,099	10.8	17,923	10.1	207	5,829	55	1,864
NO COMMERCIAL MOTOR VEHICLE INVOLVED	911	83.6	42,082	92.0	116,002	89.2	158,995	89.9	1,020	62,965	-	-
UNKNOWN <sup>3</sup>	5	-	239	-	5,462	-	5,706	-	5	327	-	-
<b>TOTAL</b>	<b>1,095</b>	<b>100.0</b>	<b>45,966</b>	<b>100.0</b>	<b>135,563</b>	<b>100.0</b>	<b>182,624</b>	<b>100.0</b>	<b>1,232</b>	<b>69,121</b>	<b>55</b>	<b>1,864</b>

<sup>1</sup>This statistic indicates the total number of persons killed and injured in a crash where one or more commercial motor vehicles were involved.

<sup>2</sup>This statistic indicates the number of commercial motor vehicle drivers and passengers killed and injured.

<sup>3</sup>Crashes were classified as unknown if the following conditions exist: none of the vehicles involved in the crash was a commercial motor vehicle and the body type of one or more vehicles involved in the crash was not known.

**TABLE 3.5.1**

### 2002 and 2003 COMMERCIAL MOTOR VEHICLE INVOLVED CRASH ANALYSIS

	2002	2003	RATE OF CHANGE
FATAL	191	179	- 6.3
PERSONAL INJURY	3,825	3,645	- 4.7
PROPERTY DAMAGE	14,608	14,099	- 3.5
TOTAL	18,624	17,923	- 3.8

**TABLE 3.5.2**

### 2003 COMMERCIAL MOTOR VEHICLE INVOLVED CRASHES

#### CRASH TYPE BY CRASH SEVERITY

	FATAL	%	PERSONAL INJURY	%	PROPERTY DAMAGE	%	TOTAL	%
ANIMAL	0	0.0	12	0.3	215	1.5	227	1.3
BICYCLIST	1	0.6	13	0.4	2	0.0	16	0.1
FIXED OBJECT	24	13.4	380	10.4	1,835	13.0	2,239	12.5
OTHER OBJECT	0	0.0	28	0.8	187	1.3	215	1.2
PEDESTRIAN	10	5.6	50	1.4	1	0.0	61	0.3
TRAIN	1	0.6	7	0.2	7	0.1	15	0.1
VEHICLE IN TRANSPORT	109	60.9	2,748	75.4	9,932	70.4	12,789	71.4
VEHICLE ON OTHER ROADWAY	12	6.7	38	1.0	58	0.4	108	0.6
PARKED VEHICLE	6	3.4	83	2.3	1,289	9.1	1,378	7.7
NONCOLLISION OVERTURN	13	7.3	243	6.7	313	2.2	569	3.2
NONCOLLISION OTHER	3	1.7	43	1.2	260	1.8	306	1.7
<b>TOTAL</b>	179	100.0	3,645	100.0	14,099	100.0	17,923	100.0

**TABLE 3.5.3**



## 2003 COMMERCIAL MOTOR VEHICLE INVOLVED CRASHES

### AREA CLASSIFICATION BY CRASH SEVERITY

	FATAL	%	PERSONAL INJURY	%	PROPERTY DAMAGE	%	TOTAL	%
URBAN	41	22.9	1,835	50.3	8,470	60.1	10,346	57.7
RURAL	138	77.1	1,810	49.7	5,629	39.9	7,577	42.3
<b>TOTAL</b>	179	100.0	3,645	100.0	14,099	100.0	17,923	100.0

**TABLE 3.5.4**

## 2003 COMMERCIAL MOTOR VEHICLE INVOLVED CRASHES

### ROAD CURVATURE BY CRASH SEVERITY

	FATAL	%	PERSONAL INJURY	%	PROPERTY DAMAGE	%	TOTAL	%
STRAIGHT	133	74.7	3,032	83.8	11,698	86.7	14,863	85.9
CURVE	45	25.3	588	16.2	1,801	13.3	2,434	14.1
UNKNOWN	1	-	25	-	600	-	626	-
<b>TOTAL</b>	179	100.0	3,645	100.0	14,099	100.0	17,923	100.0

**TABLE 3.5.5**

## 2003 COMMERCIAL MOTOR VEHICLE INVOLVED CRASHES

### ROAD INCLINE BY CRASH SEVERITY

	FATAL	%	PERSONAL INJURY	%	PROPERTY DAMAGE	%	TOTAL	%
LEVEL	87	48.9	2,299	63.6	9,548	71.1	11,934	69.3
HILL	84	47.2	1,217	33.7	3,580	26.7	4,881	28.4
CREST	7	3.9	97	2.7	292	2.2	396	2.3
UNKNOWN	1	-	32	-	679	-	712	-
<b>TOTAL</b>	179	100.0	3,645	100.0	14,099	100.0	17,923	100.0

**TABLE 3.5.6**

## 2003 COMMERCIAL MOTOR VEHICLE INVOLVED CRASHES

### ROAD CONDITIONS BY CRASH SEVERITY

	FATAL	%	PERSONAL INJURY	%	PROPERTY DAMAGE	%	TOTAL	%
DRY	144	80.9	2,838	78.2	11,270	80.5	14,252	80.0
WET	25	14.0	616	17.0	2,026	14.5	2,667	15.0
SNOW	4	2.3	125	3.4	526	3.8	655	3.7
ICE	4	2.3	43	1.2	132	0.9	179	1.0
SLUSH	1	0.6	7	0.2	37	0.3	45	0.3
MUD	0	0.0	1	0.0	6	0.0	7	0.0
STANDING WATER	0	0.0	0	0.0	2	0.0	2	0.0
MOVING WATER	0	0.0	0	0.0	0	0.0	0	0.0
UNKNOWN	1	-	15	-	100	-	116	-
<b>TOTAL</b>	179	100.0	3,645	100.0	14,099	100.0	17,923	100.0

**TABLE 3.5.7**

## 2003 COMMERCIAL MOTOR VEHICLE INVOLVED CRASHES

### HIGHWAY CLASSIFICATION BY CRASH SEVERITY

	FATAL	%	PERSONAL INJURY	%	PROPERTY DAMAGE	%	TOTAL	%
INTERSTATE	54	30.2	892	24.5	3,268	23.2	4,214	23.5
U.S. HIGHWAY	48	26.8	585	16.1	1,638	11.6	2,271	12.7
STATE NUMBERED	39	21.8	648	17.8	1,819	12.9	2,506	14.0
SINGLE STATE LETTERED	10	5.6	248	6.8	599	4.3	857	4.8
DOUBLE STATE LETTERED	4	2.2	92	2.5	223	1.6	319	1.8
OUTER ROAD	1	0.6	22	0.6	102	0.7	125	0.7
COUNTY ROAD	7	3.9	241	6.6	881	6.3	1,129	6.3
CITY STREET	14	7.8	834	22.9	5,007	35.5	5,855	32.7
INTERSTATE LOOP	1	0.6	14	0.4	52	0.4	67	0.4
OTHER <sup>1</sup>	1	0.6	69	1.9	510	3.6	580	3.2
<b>TOTAL</b>	179	100.0	3,645	100.0	14,099	100.0	17,923	100.0

<sup>1</sup> "Other" includes types of roads that are maintained by the State as well as by local jurisdictions.

**TABLE 3.5.8**

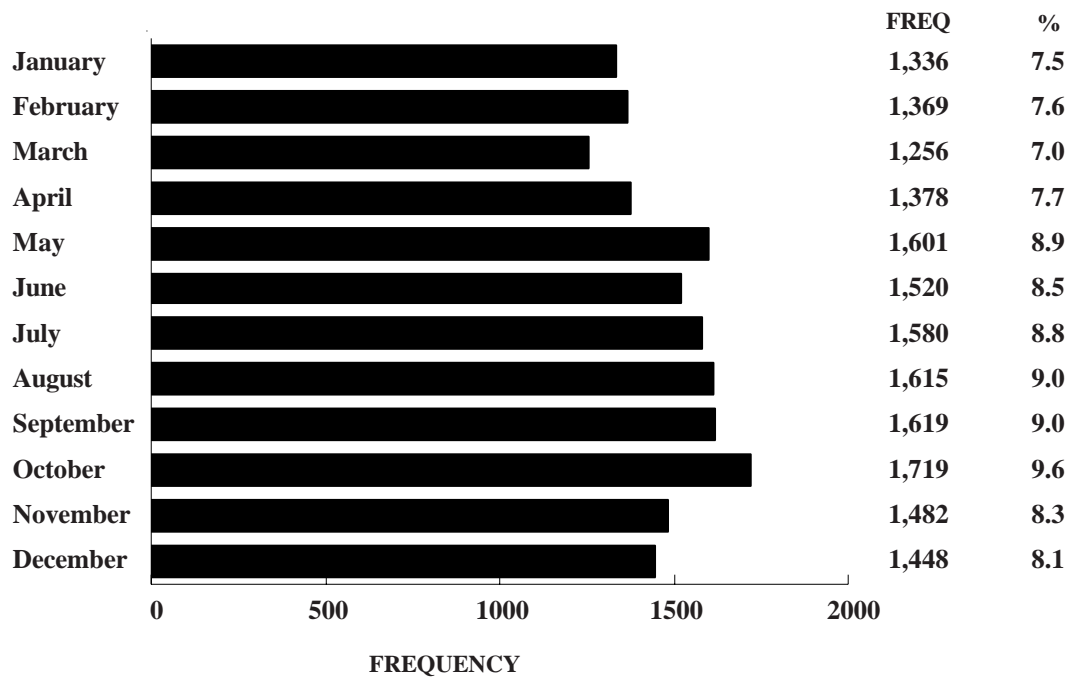
**2003 COMMERCIAL MOTOR VEHICLE INVOLVED CRASHES**  
**HIGHWAY CLASSIFICATION BY AREA CLASSIFICATION AND CRASH SEVERITY**

	URBAN								RURAL							
	FATAL	%	PERSONAL INJURY	%	PROPERTY DAMAGE	%	TOTAL	%	FATAL	%	PERSONAL INJURY	%	PROPERTY DAMAGE	%	TOTAL	%
INTERSTATE	17	41.5	472	25.7	1,720	20.3	2,209	21.4	37	26.8	420	23.2	1,548	27.5	2,005	26.5
U.S. HIGHWAY	4	9.8	190	10.4	639	7.5	833	8.1	44	31.9	395	21.8	999	17.8	1,438	19.0
STATE NUMBERED	1	2.4	231	12.6	721	8.5	953	9.2	38	27.5	417	23.0	1,098	19.5	1,553	20.5
SINGLE STATE LETTERED	3	7.3	35	1.9	118	1.4	156	1.5	7	5.1	213	11.8	481	8.6	701	9.3
DOUBLE STATE LETTERED	1	2.4	18	1.0	57	0.7	76	0.7	3	2.2	74	4.1	166	3.0	243	3.2
OUTER ROAD	0	0.0	10	0.5	50	0.6	60	0.6	1	0.7	12	0.7	52	0.9	65	0.9
COUNTY ROAD	1	2.4	48	2.6	215	2.5	264	2.6	6	4.4	193	10.7	666	11.8	865	11.4
CITY STREET	13	31.7	764	41.6	4,523	53.4	5,300	51.2	1	0.7	70	3.9	484	8.6	555	7.3
INTERSTATE LOOP	1	2.4	11	0.6	45	0.5	57	0.6	0	0.0	3	0.2	7	0.1	10	0.1
OTHER¹	0	0.0	56	3.1	382	4.5	438	4.2	1	0.7	13	0.7	128	2.3	142	1.9
TOTAL	41	100.0	1,835	100.0	8,470	100.0	10,346	100.0	138	100.0	1,810	100.0	5,629	100.0	7,577	100.0

<sup>1</sup> "Other" includes types of roads that are maintained by the State as well as by local jurisdictions.

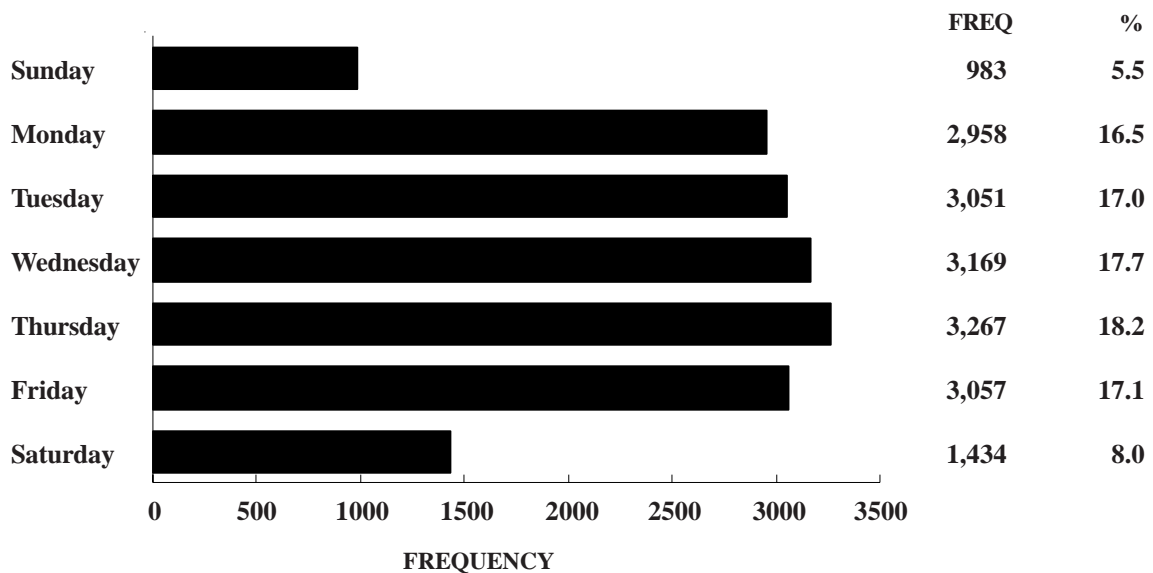
**TABLE 3.5.9**

**2003 MISSOURI COMMERCIAL MOTOR VEHICLE INVOLVED CRASHES  
MONTH OF YEAR**



**FIGURE 3.5.1**

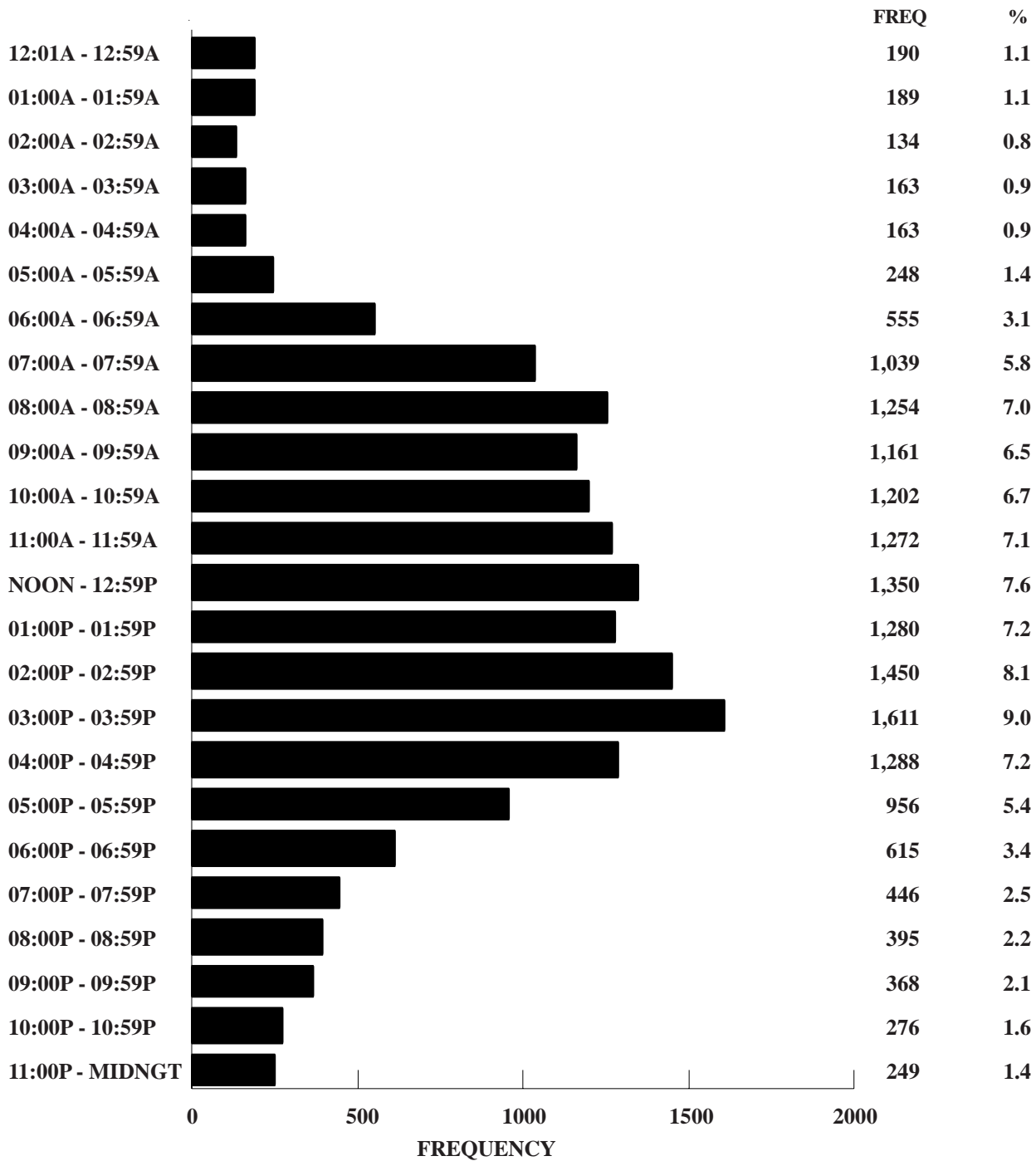
**2003 MISSOURI COMMERCIAL MOTOR VEHICLE INVOLVED CRASHES  
DAY OF WEEK**



Unknown Data Not Included

**FIGURE 3.5.2**

**2003 MISSOURI COMMERCIAL MOTOR VEHICLE INVOLVED CRASHES  
HOUR OF DAY**



Unknown Data Not Included

**FIGURE 3.5.3**

## 2003 MISSOURI COMMERCIAL MOTOR VEHICLE CRASHES

### TYPE OF CIRCUMSTANCE INVOLVED BY CRASH SEVERITY AND PERSON CLASSIFICATION<sup>1</sup>

FATAL COMMERCIAL MOTOR VEHICLE CRASHES = 179				TOTAL COMMERCIAL MOTOR VEHICLE CRASHES = 17,923		
	COMM. M. V. DRIVER/ VEHICLE	OTHER DRIVER/ VEHICLE/PED.	TOTAL FATAL	COMM. M. V. DRIVER/ VEHICLE	OTHER DRIVER/ VEHICLE/PED.	TOTAL CRASHES
VEHICLE DEFECTS	3.4	1.1	4.5	5.9	1.0	6.9
TRAFFIC CONTROL INOPERATIVE / MISSING	0.0	0.0	0.0	0.1	0.1	0.1
IMPROPERLY STOPPED ON ROADWAY	0.0	1.1	1.1	0.4	0.5	0.8
EXCEEDING SPEED LIMIT / TOO FAST FOR CONDITIONS	11.2	12.8	23.5	6.9	5.7	12.4
IMPROPER PASSING	0.0	3.9	3.9	1.1	1.9	3.0
VIOLATION OF STOP SIGN	1.1	2.8	3.9	1.4	1.6	2.9
WRONG SIDE NOT PASSING	5.0	14.0	19.0	1.5	1.3	2.7
FOLLOWING TOO CLOSE	2.8	5.0	7.8	6.8	4.5	11.0
IMPROPER SIGNAL	0.0	0.0	0.0	0.2	0.1	0.3
IMPROPER BACKING	0.0	0.0	0.0	4.0	0.5	4.5
IMPROPER TURN	0.0	2.8	2.8	4.3	1.2	5.5
IMPROPER LANE USAGE / CHANGE	4.5	9.5	14.0	7.8	5.7	13.0
WRONG WAY ONE-WAY STREET	0.0	2.8	2.8	0.1	0.1	0.2
IMPROPER START FROM PARK	0.0	0.0	0.0	0.2	0.1	0.3
IMPROPERLY PARKED	0.6	0.0	0.6	0.4	0.4	0.8
FAILED TO YIELD	3.4	12.8	16.2	6.1	6.5	12.4
DRINKING	2.2	2.2	4.4	0.8	1.0	1.8
DRUGS	0.6	1.1	1.7	0.1	0.1	0.2
PHYSICAL IMPAIRMENT	2.8	5.0	7.8	0.8	0.7	1.5
INATTENTION	10.6	18.4	29.0	20.1	10.9	29.3

<sup>1</sup>This table identifies the percentage of commercial motor vehicle crashes having a specific type of circumstance which contributed to the cause of the crash. This table further defines the percentage of crashes where the contributing circumstance was associated with the commercial motor vehicle driver or his vehicle as well as those attributed to other persons and vehicles in the crash. For instance, when examining speed involvement in 2003 Missouri fatal commercial motor vehicle crashes, it was found that a commercial motor vehicle driver was speeding in 11.2% of the crashes. In 12.8% of the crashes another driver was speeding. In 23.5% of the crashes either a commercial motor vehicle driver, another driver, or both drivers were speeding.

**TABLE 3.5.10**

**COMMERCIAL MOTOR VEHICLES IN 2003 MISSOURI CRASHES**

**TYPE OF COMMERCIAL MOTOR VEHICLE BY CRASH SEVERITY**

	FATAL	%	PERSONAL INJURY	%	PROPERTY DAMAGE	%	TOTAL	%
<b>PLACARDED</b>								
AUTOMOBILE	0	0.0	0	0.0	2	0.0	2	0.0
SPORT UTILITY VEHICLE	0	0.0	0	0.0	1	0.0	1	0.0
VAN / SMALL BUS	0	0.0	0	0.0	1	0.0	1	0.0
PICKUP TRUCK	0	0.0	2	0.1	5	0.0	7	0.0
SINGLE UNIT TRUCK	1	0.5	12	0.3	12	0.1	25	0.1
TRUCK-TRACTOR - 1 UNIT	2	1.0	22	0.6	38	0.3	62	0.3
TRUCK-TRACTOR - 2 UNITS	0	0.0	2	0.1	5	0.0	7	0.0
<b>NON-PLACARDED TRUCKS HAVING A GCVWR OF 10,001 POUNDS OR MORE</b>								
PICKUP TRUCK	19	9.7	667	17.1	1,966	13.1	2,652	13.9
SINGLE UNIT TRUCK	53	27.0	1,212	31.0	4,876	32.4	6,141	32.1
TRUCK-TRACTOR - NO UNITS	1	0.5	61	1.6	295	2.0	357	1.9
TRUCK-TRACTOR - 1 UNIT	105	53.6	1,449	37.1	5,744	38.2	7,298	38.1
TRUCK-TRACTOR - 2 UNITS	3	1.5	44	1.1	166	1.1	213	1.1
TRUCK-TRACTOR - 3 UNITS	0	0.0	1	0.0	8	0.1	9	0.0
OTHER HEAVY TRUCKS	5	2.6	121	3.1	531	3.5	657	3.4
<b>NON-PLACARDED BUS - 16 OR MORE SEATING CAPACITY</b>								
BUS	2	1.0	153	3.9	634	4.2	789	4.1
SCHOOL BUS	5	2.6	162	4.1	751	5.0	918	4.8
<b>TOTAL</b>	196	100.0	3,908	100.0	15,035	100.0	19,139	100.0

**TABLE 3.5.11**

## COMMERCIAL MOTOR VEHICLES IN 2003 MISSOURI CRASHES

### DRIVER INVOLVEMENT BY CRASH SEVERITY

	FATAL	%	PERSONAL INJURY	%	PROPERTY DAMAGE	%	TOTAL	%
DRIVERLESS	7	3.6	90	2.3	512	3.4	609	3.2
KNOWN DRIVER INVOLVED	187	95.4	3,727	95.4	13,395	89.1	17,309	90.4
UNKNOWN DRIVER INVOLVED	2	1.0	91	2.3	1,128	7.5	1,221	6.4
<b>TOTAL</b>	196	100.0	3,908	100.0	15,035	100.0	19,139	100.0

TABLE 3.5.12

## DRIVERS OF COMMERCIAL MOTOR VEHICLES IN 2003 MISSOURI CRASHES

### SEX OF DRIVER BY CRASH SEVERITY

	FATAL	%	PERSONAL INJURY	%	PROPERTY DAMAGE	%	TOTAL	%
MALE	182	97.3	3,384	90.8	11,784	90.5	15,350	90.6
FEMALE	5	2.7	343	9.2	1,240	9.5	1,588	9.4
UNKNOWN	2	-	91	-	1,499	-	1,592	-
<b>TOTAL</b>	189	100.0	3,818	100.0	14,523	100.0	18,530	100.0

TABLE 3.5.13



## DRIVERS OF COMMERCIAL MOTOR VEHICLES IN 2003 MISSOURI CRASHES

### AGE OF DRIVER BY CRASH SEVERITY

	FATAL	%	PERSONAL INJURY	%	PROPERTY DAMAGE	%	TOTAL	%
<b>AVERAGE AGE OF DRIVER</b>	44.0	-	42.3	-	41.9	-	42.0	-
14 YEARS AND UNDER	0	0.0	0	0.0	0	0.0	0	0.0
15 - 20 YEARS	2	1.1	121	3.3	353	2.7	476	2.8
21 - 25 YEARS	10	5.4	264	7.1	988	7.5	1,262	7.4
26 - 30 YEARS	16	8.6	356	9.6	1,354	10.3	1,726	10.1
31 - 35 YEARS	21	11.3	478	12.9	1,698	12.9	2,197	12.9
36 - 40 YEARS	28	15.1	488	13.2	1,803	13.7	2,319	13.6
41 - 45 YEARS	26	14.0	531	14.3	1,978	15.1	2,535	14.9
46 - 50 YEARS	27	14.5	478	12.9	1,684	12.8	2,189	12.9
51 - 55 YEARS	19	10.2	365	9.8	1,296	9.9	1,680	9.9
56 - 60 YEARS	18	9.7	286	7.7	953	7.3	1,257	7.4
61 - 65 YEARS	14	7.5	195	5.3	519	4.0	728	4.3
66 YEARS AND OVER	5	2.7	148	4.0	515	3.9	668	3.9
UNKNOWN	3	-	108	-	1,382	-	1,493	-
<b>TOTAL</b>	189	100.0	3,818	100.0	14,523	100.0	18,530	100.0

**TABLE 3.5.14**

# DRIVERS OF COMMERCIAL MOTOR VEHICLES IN 2003 MISSOURI CRASHES

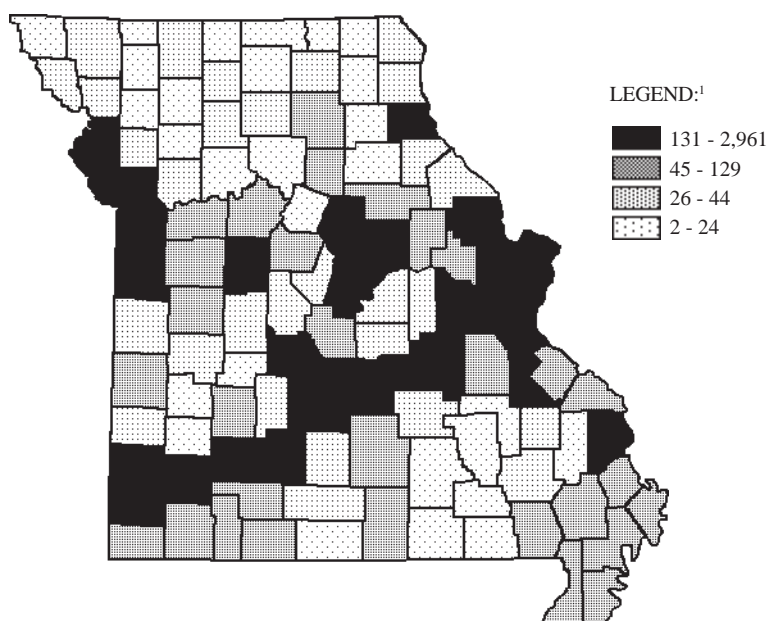
## DRIVER'S LICENSE STATE AND TYPE BY CRASH SEVERITY

	FATAL	%	PERSONAL INJURY	%	PROPERTY DAMAGE	%	TOTAL	%
<b>MISSOURI</b>								
LEARNER'S PERMIT	0	0.0	5	0.1	15	0.1	20	0.1
OPERATOR'S LICENSE	24	13.0	974	26.6	3,441	27.1	4,439	26.9
MOTORCYCLE ONLY	0	0.0	0	0.0	0	0.0	0	0.0
COMMERCIAL DRIVER'S LICENSE	88	47.6	1,625	44.4	5,503	43.4	7,216	43.7
SUBTOTAL	112	60.5	2,604	71.1	8,959	70.6	11,675	70.6
<b>OUTSTATE</b>								
LEARNER'S PERMIT	0	0.0	1	0.0	3	0.0	4	0.0
OPERATOR'S LICENSE	6	3.2	180	4.9	600	4.7	786	4.8
MOTORCYCLE ONLY	0	0.0	0	0.0	0	0.0	0	0.0
COMMERCIAL DRIVER'S LICENSE	63	34.1	835	22.8	3,055	24.1	3,953	23.9
SUBTOTAL	69	37.3	1,016	27.8	3,658	28.8	4,743	28.7
UNLICENSED	4	2.2	40	1.1	71	0.6	115	0.7
UNKNOWN	4	-	158	-	1,835	-	1,997	-
<b>TOTAL</b>	189	100.0	3,818	100.0	14,523	100.0	18,530	100.0

**TABLE 3.5.15**

## 2003 COMMERCIAL MOTOR VEHICLE INVOLVED CRASHES

### COUNTY QUARTILE ANALYSIS



<sup>1</sup>LEGEND CATEGORIES ARE BASED ON QUARTILES OF COUNTIES.

RANK	COUNTY	FREQUENCY	PERCENT	RANK	COUNTY	FREQUENCY	PERCENT
1.0	ST. LOUIS	2,961	16.5	22.0	CAMDEN	137	0.8
2.0	JACKSON	2,270	12.7	23.0	MARION	135	0.8
3.0	ST. LOUIS CITY	1,976	11.0	24.0	ST. FRANCOIS	134	0.7
4.0	ST. CHARLES	921	5.1	25.0	PULASKI	133	0.7
5.0	GREENE	723	4.0	26.0	PETTIS	132	0.7
6.0	CLAY	550	3.1	27.5	LINCOLN	131	0.7
7.0	JEFFERSON	459	2.6	27.5	WEBSTER	131	0.7
8.0	FRANKLIN	379	2.1	First Quartile			
9.0	BOONE	374	2.1	Second Quartile			
10.0	JASPER	342	1.9	29.5	CHRISTIAN	129	0.7
11.0	PHELPS	266	1.5	29.5	LAFAYETTE	129	0.7
12.0	PLATTE	258	1.4	31.0	WARREN	117	0.7
13.0	BUCHANAN	234	1.3	32.0	BUTLER	112	0.6
14.0	CASS	225	1.3	33.5	NEW MADRID	104	0.6
15.0	CAPE GIRARDEAU	220	1.2	33.5	TANEY	104	0.6
16.0	COLE	215	1.2	35.5	COOPER	95	0.5
17.0	LACLEDE	172	1.0	35.5	HOWELL	95	0.5
18.0	CALLAWAY	168	0.9	37.0	MONTGOMERY	94	0.5
19.0	NEWTON	167	0.9	38.0	PEMISCOT	86	0.5
20.0	CRAWFORD	150	0.8	39.0	SCOTT	83	0.5
21.0	LAWRENCE	142	0.8				

RANK	COUNTY	FREQUENCY	PERCENT	RANK	COUNTY	FREQUENCY	PERCENT
40.0	PERRY	81	0.5	79.0	CLARK	31	0.2
41.0	BARRY	79	0.4	79.0	LINN	31	0.2
42.0	JOHNSON	76	0.4	79.0	MARIES	31	0.2
44.0	MC DONALD	75	0.4	81.0	BARTON	30	0.2
44.0	SALINE	75	0.4	83.0	HOLT	29	0.2
44.0	VERNON	75	0.4	83.0	MADISON	29	0.2
46.0	RANDOLPH	73	0.4	83.0	RALLS	29	0.2
47.0	AUDRAIN	65	0.4	85.0	GRUNDY	27	0.2
48.0	DUNKLIN	63	0.4	86.5	MONITEAU	26	0.1
49.0	MACON	62	0.3	86.5	OSAGE	26	0.1
50.0	POLK	60	0.3	Third Quartile			
51.0	STODDARD	59	0.3	Fourth Quartile			
52.0	TEXAS	55	0.3	90.0	BOLLINGER	24	0.1
53.5	HENRY	53	0.3	90.0	CARTER	24	0.1
53.5	MILLER	53	0.3	90.0	CEDAR	24	0.1
55.0	MISSISSIPPI	47	0.3	90.0	DAVIESS	24	0.1
56.0	STONE	46	0.3	90.0	REYNOLDS	24	0.1
57.5	STE. GENEVIEVE	45	0.3	93.5	MONROE	23	0.1
57.5	WASHINGTON	45	0.3	93.5	SHANNON	23	0.1
Second Quartile				96.5	ATCHISON	22	0.1
Third Quartile				96.5	CALDWELL	22	0.1
59.0	DALLAS	44	0.2	96.5	DE KALB	22	0.1
61.5	ADAIR	43	0.2	96.5	SHELBY	22	0.1
61.5	BATES	43	0.2	99.0	CARROLL	20	0.1
61.5	HARRISON	43	0.2	101.0	IRON	18	0.1
61.5	RAY	43	0.2	101.0	RIPLEY	18	0.1
64.0	CLINTON	42	0.2	101.0	SCOTLAND	18	0.1
65.5	DENT	40	0.2	103.5	OREGON	16	0.1
65.5	WAYNE	40	0.2	103.5	OZARK	16	0.1
67.5	DOUGLAS	39	0.2	105.0	MERCER	15	0.1
67.5	NODAWAY	39	0.2	106.0	CHARITON	13	0.1
69.5	LIVINGSTON	38	0.2	107.0	DADE	12	0.1
69.5	WRIGHT	38	0.2	109.0	HOWARD	10	0.1
71.5	BENTON	37	0.2	109.0	PUTNAM	10	0.1
71.5	GASCONADE	37	0.2	109.0	SULLIVAN	10	0.1
73.0	LEWIS	36	0.2	111.0	GENTRY	8	0.0
74.0	PIKE	35	0.2	112.0	HICKORY	7	0.0
75.0	MORGAN	34	0.2	113.0	KNOX	6	0.0
76.5	ANDREW	33	0.2	114.0	SCHUYLER	4	0.0
76.5	ST. CLAIR	33	0.2	115.0	WORTH	2	0.0

TABLE 3.5.16

## 2003 COMMERCIAL MOTOR VEHICLE INVOLVED CRASHES

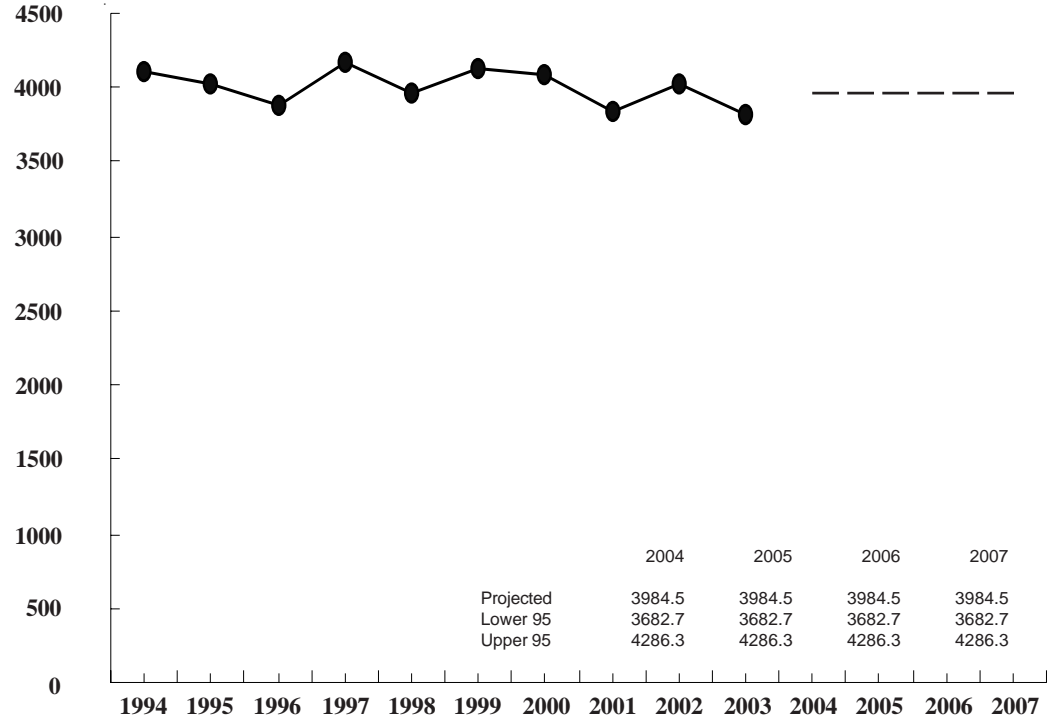
### CITY LISTING

RANK	CITY	FREQUENCY	PERCENT <sup>1</sup>
1.0	ST. LOUIS	1,976	17.0
2.0	KANSAS CITY	1,861	16.0
3.0	SPRINGFIELD	489	4.2
4.0	INDEPENDENCE	234	2.0
5.0	COLUMBIA	228	2.0
6.0	LEE'S SUMMIT	202	1.7
7.0	ST. JOSEPH	188	1.6
8.0	ST. CHARLES	184	1.6
9.0	JOPLIN	178	1.5
10.0	MARYLAND HEIGHTS	177	1.5
11.5	O'FALLON	176	1.5
11.5	ST. PETERS	176	1.5
13.0	JEFFERSON CITY	163	1.4
14.0	FLORISSANT	145	1.2
15.0	BRIDGETON	142	1.2
16.0	CAPE GIRARDEAU	138	1.2
17.0	HAZELWOOD	129	1.1
18.0	ROLLA	120	1.0
19.0	BLUE SPRINGS	113	1.0
20.0	CHESTERFIELD	107	0.9
21.0	NORTH KANSAS CITY	101	0.9
22.0	WENTZVILLE	99	0.8
23.0	LIBERTY	90	0.8
24.0	SUNSET HILLS	89	0.8
25.0	KIRKWOOD	87	0.7
26.0	OVERLAND	86	0.7
27.0	CREVE COEUR	85	0.7
28.0	CLAYTON	84	0.7
29.0	TOWN AND COUNTRY	82	0.7
30.0	HANNIBAL	79	0.7
31.0	SEDALIA	69	0.6
32.0	RICHMOND HEIGHTS	68	0.6
33.5	HARRISONVILLE	65	0.6
33.5	UNIVERSITY CITY	65	0.6
35.0	BERKELEY	64	0.5
36.0	WASHINGTON	60	0.5
37.0	LEBANON	59	0.5
38.0	EUREKA	57	0.5
39.0	LAKE ST. LOUIS	56	0.5
40.0	WEBSTER GROVES	55	0.5
41.0	BELTON	54	0.5

<sup>1</sup>Percentage is based on commercial motor vehicle involved crashes which occurred in Missouri municipalities with populations of 1,000 or more. Only those municipalities comprising 0.5% or more of these crashes are listed.

**TABLE 3.5.17**

**MISSOURI FATAL AND PERSONAL INJURY COMMERCIAL MOTOR VEHICLE INVOLVED CRASHES  
ANNUAL TIME SERIES**



**FIGURE 3.5.4**

### 3.6 MOTORCYCLE INVOLVEMENT

This section presents a series of data displays which describe motorcycle involvement in Missouri's traffic crash experience. Motorcycle traffic crashes are defined as any crash in which one or more motorcycles were involved in the incident. Mopeds and all terrain vehicles (ATV's) are not considered motorcycles for the purpose of this analysis. Data displays also are provided in this section which identify characteristics of motorcycle drivers in traffic crashes.

#### 2003 SUMMARY ANALYSIS

- Of all 2003 Missouri traffic crashes, 1.0% involved a motorcycle. Of all fatal traffic crashes, 7.4% involved a motorcycle. A total of 91 persons were killed and 1,649 were injured in motorcycle crashes.
- There was an increase of 11.1% in the rate of change when comparing total 2003 motorcycle traffic crashes with those in 2002. There was an increase of 44.6% when comparing fatal 2003 motorcycle crashes with 2002.
- In 2003, one person was killed or injured in a motorcycle traffic crash every 5.0 hours in the State of Missouri.
- Of all 2003 motorcycle crashes, the first harmful event in 43.7% of the cases involved one motor vehicle in transport striking another motor vehicle in transport. In 25.4% of the cases, it involved a motor vehicle overturning. In fatal motorcycle traffic crashes, 32.1% of the cases involved a motor vehicle striking a fixed object.
- Of all 2003 motorcycle traffic crashes, 52.3% occurred in urban regions of the State and 47.7% occurred in rural areas. However, in fatal motorcycle crashes, 63.0% occurred in a rural area.
- Of all motorcycle drivers in traffic crashes, 95.6% were male and 4.4% were female. The average age of motorcyclists was 38.3 years.
- Motorcycle drivers were speeding in 53.1% of all fatal motorcycle traffic crashes and their drinking was a causative factor in 19.8% of these crashes.
- Of those motorcyclists in 2003 traffic crashes who wore a helmet, 29.8% were either killed or received a major disabling injury. Of those not wearing helmets, 51.7% were either killed or received a major disabling injury.

## 2003 MISSOURI TRAFFIC CRASHES

### MOTORCYCLE INVOLVEMENT

	FATAL	%	PERSONAL		PROPERTY		TOTAL	%	TOTAL NUMBER <sup>1</sup>		MOTORCYCLE	
			INJURY	%	DAMAGE	%			KILLED	INJURED	DRIVERS/PASSENGERS <sup>2</sup>	KILLED
MOTORCYCLE INVOLVED	81	7.4	1,362	3.0	329	0.3	1,772	1.0	91	1,649	85	1,526
NO MOTORCYCLE INVOLVED	1,009	92.6	44,366	97.0	129,733	99.7	175,108	99.0	1,136	67,145	-	-
UNKNOWN <sup>3</sup>	5	-	238	-	5,501	-	5,744	-	5	327	-	-
TOTAL	1,095	100.0	45,966	100.0	135,563	100.0	182,624	100.0	1,232	69,121	85	1,526

<sup>1</sup>This statistic indicates the total number of persons killed and injured in a crash where one or more motorcycles were involved.

<sup>2</sup>This statistic indicates the number of motorcycle drivers and passengers killed and injured.

<sup>3</sup>Crashes were classified as unknown if the following conditions exist: none of the vehicles involved in the crash was a motorcycle and the body type of one or more vehicles involved in the crash was not known.

**TABLE 3.6.1**



### 2002 and 2003 MOTORCYCLE INVOLVED CRASH ANALYSIS

	2002	2003	RATE OF CHANGE
FATAL	56	81	+ 44.6
PERSONAL INJURY	1,199	1,362	+ 13.6
PROPERTY DAMAGE	340	329	- 3.2
TOTAL	1,595	1,772	+ 11.1

**TABLE 3.6.2**

### 2003 MOTORCYCLE INVOLVED CRASHES

#### CRASH TYPE BY CRASH SEVERITY

	FATAL	%	PERSONAL INJURY	%	PROPERTY DAMAGE	%	TOTAL	%
ANIMAL	1	1.2	67	4.9	9	2.7	77	4.4
BICYCLIST	0	0.0	2	0.2	0	0.0	2	0.1
FIXED OBJECT	26	32.1	285	20.9	30	9.1	341	19.2
OTHER OBJECT	2	2.5	16	1.2	4	1.2	22	1.2
PEDESTRIAN	0	0.0	1	0.1	0	0.0	1	0.1
TRAIN	0	0.0	1	0.1	0	0.0	1	0.1
VEHICLE IN TRANSPORT	39	48.2	536	39.4	199	60.5	774	43.7
VEHICLE ON OTHER ROADWAY	0	0.0	0	0.0	0	0.0	0	0.0
PARKED VEHICLE	1	1.2	11	0.8	32	9.7	44	2.5
NONCOLLISION OVERTURN	12	14.8	392	28.8	46	14.0	450	25.4
NONCOLLISION OTHER	0	0.0	51	3.7	9	2.7	60	3.4
<b>TOTAL</b>	81	100.0	1,362	100.0	329	100.0	1,772	100.0

**TABLE 3.6.3**

### 2003 MOTORCYCLE INVOLVED CRASHES

#### AREA CLASSIFICATION BY CRASH SEVERITY

	FATAL	%	PERSONAL INJURY	%	PROPERTY DAMAGE	%	TOTAL	%
URBAN	30	37.0	674	49.5	223	67.8	927	52.3
RURAL	51	63.0	688	50.5	106	32.2	845	47.7
<b>TOTAL</b>	81	100.0	1,362	100.0	329	100.0	1,772	100.0

**TABLE 3.6.4**

### 2003 MOTORCYCLE INVOLVED CRASHES

#### ROAD CURVATURE BY CRASH SEVERITY

	FATAL	%	PERSONAL INJURY	%	PROPERTY DAMAGE	%	TOTAL	%
STRAIGHT	47	58.8	891	65.7	266	83.9	1,204	68.7
CURVE	33	41.2	465	34.3	51	16.1	549	31.3
UNKNOWN	1	-	6	-	12	-	19	-
<b>TOTAL</b>	81	100.0	1,362	100.0	329	100.0	1,772	100.0

**TABLE 3.6.5**

### 2003 MOTORCYCLE INVOLVED CRASHES

#### ROAD INCLINE BY CRASH SEVERITY

	FATAL	%	PERSONAL INJURY	%	PROPERTY DAMAGE	%	TOTAL	%
LEVEL	45	55.6	824	60.9	243	77.9	1,112	63.7
HILL	34	42.0	485	35.9	64	20.5	583	33.4
CREST	2	2.5	43	3.2	5	1.6	50	2.9
UNKNOWN	0	-	10	-	17	-	27	-
<b>TOTAL</b>	81	100.0	1,362	100.0	329	100.0	1,772	100.0

**TABLE 3.6.6**

## 2003 MOTORCYCLE INVOLVED CRASHES

### ROAD CONDITIONS BY CRASH SEVERITY

	FATAL	%	PERSONAL INJURY	%	PROPERTY DAMAGE	%	TOTAL	%
DRY	77	97.5	1,284	95.2	299	92.3	1,660	94.8
WET	2	2.5	64	4.7	25	7.7	91	5.2
SNOW	0	0.0	0	0.0	0	0.0	0	0.0
ICE	0	0.0	0	0.0	0	0.0	0	0.0
SLUSH	0	0.0	0	0.0	0	0.0	0	0.0
MUD	0	0.0	1	0.1	0	0.0	1	0.1
STANDING WATER	0	0.0	0	0.0	0	0.0	0	0.0
MOVING WATER	0	0.0	0	0.0	0	0.0	0	0.0
UNKNOWN	2	-	13	-	5	-	20	-
<b>TOTAL</b>	<b>81</b>	<b>100.0</b>	<b>1,362</b>	<b>100.0</b>	<b>329</b>	<b>100.0</b>	<b>1,772</b>	<b>100.0</b>

**TABLE 3.6.7**

## 2003 MOTORCYCLE INVOLVED CRASHES

### HIGHWAY CLASSIFICATION BY CRASH SEVERITY

	FATAL	%	PERSONAL INJURY	%	PROPERTY DAMAGE	%	TOTAL	%
INTERSTATE	7	8.6	109	8.0	22	6.7	138	7.8
U.S. HIGHWAY	7	8.6	142	10.4	31	9.4	180	10.2
STATE NUMBERED	22	27.2	270	19.8	46	14.0	338	19.1
SINGLE STATE LETTERED	11	13.6	150	11.0	22	6.7	183	10.3
DOUBLE STATE LETTERED	3	3.7	59	4.3	12	3.7	74	4.2
OUTER ROAD	2	2.5	15	1.1	2	0.6	19	1.1
COUNTY ROAD	9	11.1	139	10.2	21	6.4	169	9.5
CITY STREET	18	22.2	428	31.4	163	49.5	609	34.4
INTERSTATE LOOP	1	1.2	10	0.7	0	0.0	11	0.6
OTHER <sup>1</sup>	1	1.2	40	2.9	10	3.0	51	2.9
<b>TOTAL</b>	<b>81</b>	<b>100.0</b>	<b>1,362</b>	<b>100.0</b>	<b>329</b>	<b>100.0</b>	<b>1,772</b>	<b>100.0</b>

<sup>1</sup>"Other" includes types of roads that are maintained by the State as well as by local jurisdictions.

**TABLE 3.6.8**

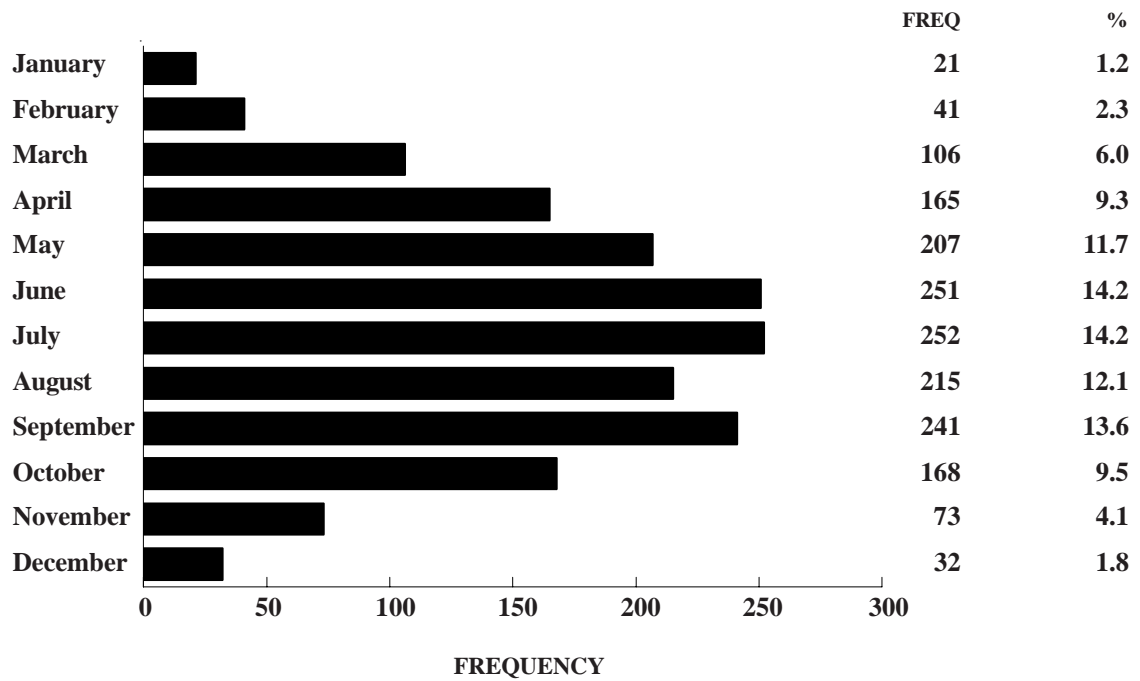
**2003 MOTORCYCLE INVOLVED CRASHES**  
**HIGHWAY CLASSIFICATION BY AREA CLASSIFICATION AND CRASH SEVERITY**

	URBAN								RURAL							
	FATAL	%	PERSONAL INJURY	%	PROPERTY DAMAGE	%	TOTAL	%	FATAL	%	PERSONAL INJURY	%	PROPERTY DAMAGE	%	TOTAL	%
INTERSTATE	3	10.0	65	9.6	15	6.7	83	9.0	4	7.8	44	6.4	7	6.6	55	6.5
U.S. HIGHWAY	4	13.3	60	8.9	16	7.2	80	8.6	3	5.9	82	11.9	15	14.2	100	11.8
STATE NUMBERED	4	13.3	72	10.7	19	8.5	95	10.3	18	35.3	198	28.8	27	25.5	243	28.8
SINGLE STATE LETTERED	0	0.0	14	2.1	2	0.9	16	1.7	11	21.6	136	19.8	20	18.9	167	19.8
DOUBLE STATE LETTERED	0	0.0	5	0.7	0	0.0	5	0.5	3	5.9	54	7.9	12	11.3	69	8.2
OUTER ROAD	0	0.0	8	1.2	1	0.5	9	1.0	2	3.9	7	1.0	1	0.9	10	1.2
COUNTY ROAD	0	0.0	28	4.2	7	3.1	35	3.8	9	17.7	111	16.1	14	13.2	134	15.9
CITY STREET	18	60.0	388	57.6	154	69.1	560	60.4	0	0.0	40	5.8	9	8.5	49	5.8
INTERSTATE LOOP	0	0.0	5	0.7	0	0.0	5	0.5	1	2.0	5	0.7	0	0.0	6	0.7
OTHER <sup>1</sup>	1	3.3	29	4.3	9	4.0	39	4.2	0	0.0	11	1.6	1	0.9	12	1.4
TOTAL	30	100.0	674	100.0	223	100.0	927	100.0	51	100.0	688	100.0	106	100.0	845	100.0

<sup>1</sup> "Other" includes types of roads that are maintained by the State as well as by local jurisdictions.

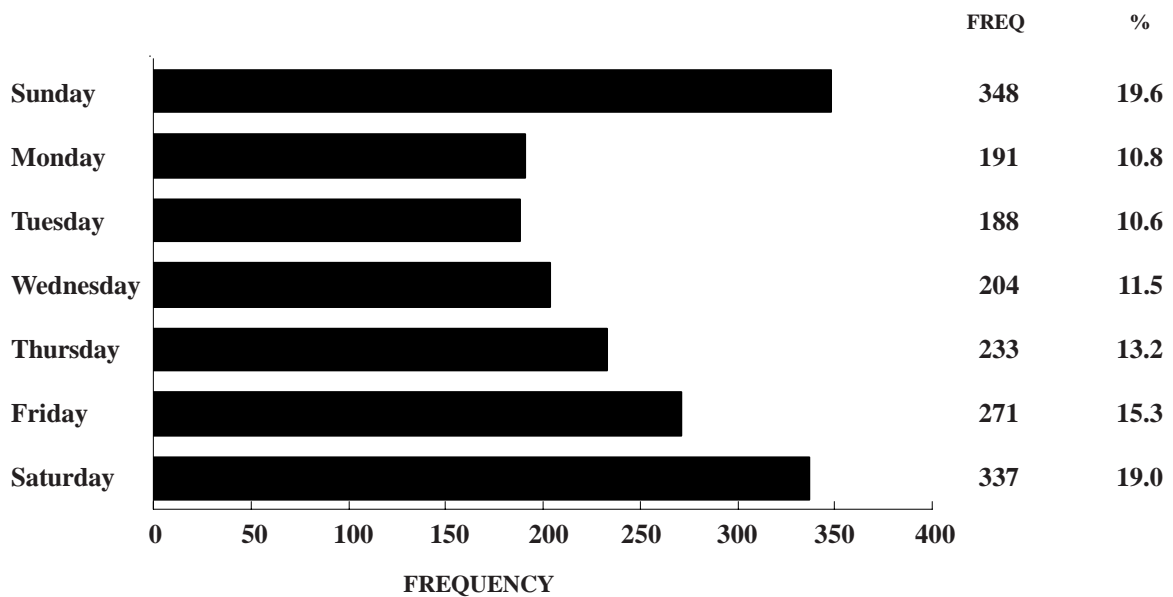
**TABLE 3.6.9**

**2003 MISSOURI MOTORCYCLE INVOLVED CRASHES  
MONTH OF YEAR**



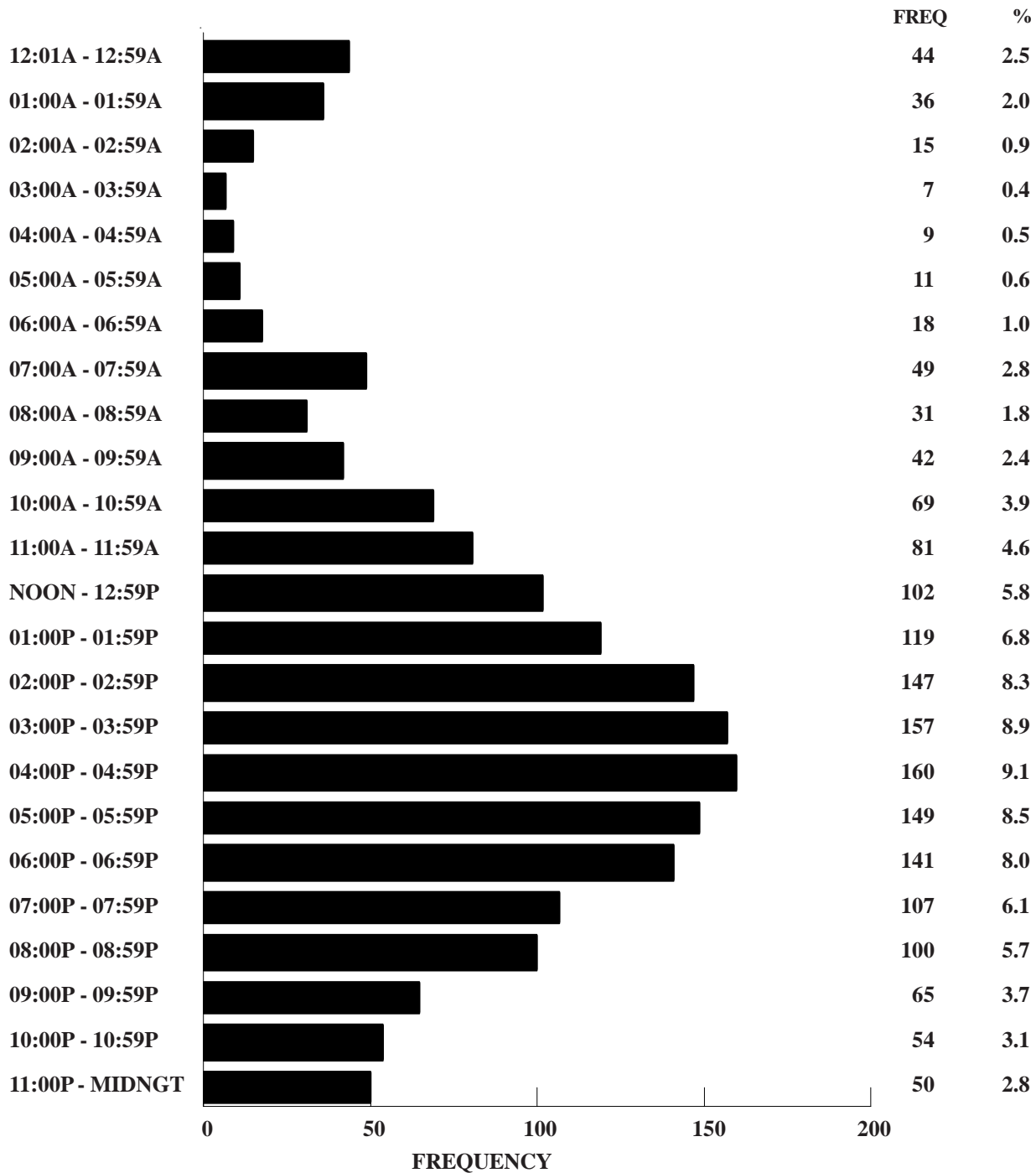
**FIGURE 3.6.1**

**2003 MISSOURI MOTORCYCLE INVOLVED CRASHES  
DAY OF WEEK**



**FIGURE 3.6.2**

**2003 MISSOURI MOTORCYCLE INVOLVED CRASHES  
HOUR OF DAY**



Unknown Data Not Included

**FIGURE 3.6.3**

## 2003 MISSOURI MOTORCYCLE CRASHES

### TYPE OF CIRCUMSTANCE INVOLVED BY CRASH SEVERITY AND PERSON CLASSIFICATION<sup>1</sup>

FATAL MOTORCYCLE CRASHES = 81				TOTAL MOTORCYCLE CRASHES = 1,772		
	MOTORCYCLE DRIVER/VEH.	OTHER DRIVER/ VEHICLE/PED.	TOTAL FATAL	MOTORCYCLE DRIVER/VEH.	OTHER DRIVER/ VEHICLE/PED.	TOTAL CRASHES
VEHICLE DEFECTS	1.2	0.0	1.2	3.4	0.5	3.9
TRAFFIC CONTROL INOPERATIVE / MISSING	0.0	0.0	0.0	0.1	0.0	0.1
IMPROPERLY STOPPED ON ROADWAY	0.0	0.0	0.0	0.1	0.6	0.7
EXCEEDING SPEED LIMIT / TOO FAST FOR CONDITIONS	53.1	0.0	53.1	28.8	1.0	29.7
IMPROPER PASSING	4.9	0.0	4.9	2.7	0.3	3.0
VIOLATION OF STOP SIGN	2.5	0.0	2.5	1.4	1.0	2.4
WRONG SIDE NOT PASSING	8.6	3.7	12.3	2.1	0.6	2.7
FOLLOWING TOO CLOSE	3.7	0.0	3.7	5.6	2.8	8.4
IMPROPER SIGNAL	0.0	0.0	0.0	0.0	0.1	0.1
IMPROPER BACKING	0.0	1.2	1.2	0.0	0.8	0.8
IMPROPER TURN	0.0	2.5	2.5	1.4	1.8	3.1
IMPROPER LANE USAGE / CHANGE	9.9	1.2	11.1	4.8	1.9	6.7
WRONG WAY ONE-WAY STREET	0.0	0.0	0.0	0.1	0.0	0.1
IMPROPER START FROM PARK	0.0	0.0	0.0	0.2	0.2	0.3
IMPROPERLY PARKED	0.0	0.0	0.0	0.1	0.0	0.1
FAILED TO YIELD	4.9	13.6	18.5	3.3	13.5	16.6
DRINKING	19.8	3.7	23.5	5.5	1.2	6.7
DRUGS	2.5	2.5	4.9	0.6	0.4	1.0
PHYSICAL IMPAIRMENT	3.7	0.0	3.7	0.6	0.1	0.7
INATTENTION	16.0	7.4	23.4	15.0	8.3	22.8

<sup>1</sup>This table identifies the percentage of motorcycle crashes having a specific type of circumstance which contributed to the cause of the crash. This table further defines the percentage of crashes where the contributing circumstance was associated with the motorcyclist or his motorcycle as well as those attributed to other persons and vehicles in the crash. For instance, when examining speed involvement in 2003 Missouri motorcycle crashes, it was found that a motorcyclist was speeding in 28.8% of the crashes. In 1.0% of the crashes another driver was speeding. In 29.7% of the crashes either a motorcyclist, another driver, or both drivers were speeding.

**TABLE 3.6.10**

### MOTORCYCLES IN 2003 MISSOURI CRASHES

#### DRIVER INVOLVEMENT BY CRASH SEVERITY

	FATAL	%	PERSONAL INJURY	%	PROPERTY DAMAGE	%	TOTAL	%
DRIVERLESS	0	0.0	1	0.1	25	7.5	26	1.4
KNOWN DRIVER INVOLVED	88	100.0	1,386	99.7	280	84.1	1,754	96.9
UNKNOWN DRIVER INVOLVED	0	0.0	3	0.2	28	8.4	31	1.7
<b>TOTAL</b>	88	100.0	1,390	100.0	333	100.0	1,811	100.0

**TABLE 3.6.11**

### DRIVERS OF MOTORCYCLES IN 2003 MISSOURI CRASHES

#### SEX OF DRIVER BY CRASH SEVERITY

	FATAL	%	PERSONAL INJURY	%	PROPERTY DAMAGE	%	TOTAL	%
MALE	87	98.9	1,319	95.2	264	97.1	1,670	95.6
FEMALE	1	1.1	67	4.8	8	2.9	76	4.4
UNKNOWN	0	-	3	-	36	-	39	-
<b>TOTAL</b>	88	100.0	1,389	100.0	308	100.0	1,785	100.0

**TABLE 3.6.12**



# DRIVERS OF MOTORCYCLES IN 2003 MISSOURI CRASHES

## AGE OF DRIVER BY CRASH SEVERITY

	FATAL	%	PERSONAL INJURY	%	PROPERTY DAMAGE	%	TOTAL	%
<b>AVERAGE AGE OF DRIVER</b>	40.2	-	38.3	-	37.3	-	38.3	-
14 YEARS AND UNDER	1	1.1	9	0.7	0	0.0	10	0.6
15 - 20 YEARS	7	8.0	108	7.8	20	7.3	135	7.8
21 - 25 YEARS	7	8.0	174	12.6	40	14.6	221	12.7
26 - 30 YEARS	9	10.2	165	12.0	30	11.0	204	11.7
31 - 35 YEARS	12	13.6	166	12.1	42	15.3	220	12.6
36 - 40 YEARS	9	10.2	140	10.2	32	11.7	181	10.4
41 - 45 YEARS	10	11.4	170	12.3	33	12.0	213	12.2
46 - 50 YEARS	12	13.6	170	12.3	36	13.1	218	12.5
51 - 55 YEARS	9	10.2	133	9.7	20	7.3	162	9.3
56 - 60 YEARS	4	4.6	80	5.8	10	3.7	94	5.4
61 - 65 YEARS	5	5.7	38	2.8	7	2.6	50	2.9
66 YEARS AND OVER	3	3.4	25	1.8	4	1.5	32	1.8
UNKNOWN	0	-	11	-	34	-	45	-
<b>TOTAL</b>	88	100.0	1,389	100.0	308	100.0	1,785	100.0

**TABLE 3.6.13**

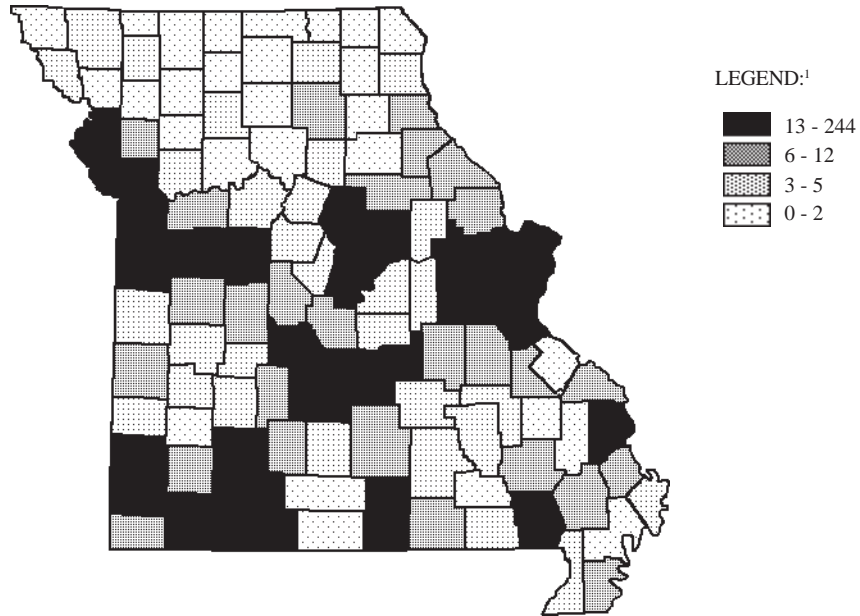
**DRIVERS OF MOTORCYCLES INVOLVED IN 2003 MISSOURI CRASHES**  
**HELMET USAGE BY PERSONAL INJURY SEVERITY**

	KILLED	DISABLING	EVIDENT	PROBABLE	NONE	UNKNOWN	TOTAL
HELMET USED <i>ROW %</i>	65 4.6	356 25.2	623 44.1	130 9.2	239 16.9	5 -	1,418 100.0
HELMET NOT USED <i>ROW %</i>	4 6.9	26 44.8	22 37.9	3 5.2	3 5.2	1 -	59 100.0
HELMET USE UNKNOWN <i>ROW %</i>	8 2.9	37 13.4	117 42.4	39 14.1	75 27.2	32 -	308 100.0
TOTAL <i>ROW %</i>	77 4.4	419 24.0	762 43.6	172 9.8	317 18.2	38 -	1,785 100.0

**TABLE 3.6.14**

## 2003 MOTORCYCLE INVOLVED CRASHES

### COUNTY QUARTILE ANALYSIS



<sup>1</sup>LEGEND CATEGORIES ARE BASED ON QUARTILES OF COUNTIES.

RANK	COUNTY	FREQUENCY	PERCENT	RANK	COUNTY	FREQUENCY	PERCENT
1.0	JACKSON	244	13.8	22.5	CHRISTIAN	17	1.0
2.0	ST. LOUIS	208	11.7	22.5	PHELPS	17	1.0
3.0	ST. LOUIS CITY	108	6.1	22.5	STONE	17	1.0
4.0	ST. CHARLES	89	5.0	22.5	WARREN	17	1.0
5.0	GREENE	88	5.0	26.0	BARRY	15	0.8
6.0	CLAY	82	4.6	26.0	BUTLER	15	0.8
7.0	JEFFERSON	71	4.0	26.0	CALLAWAY	15	0.8
8.5	BOONE	41	2.3	29.0	HOWELL	13	0.7
8.5	FRANKLIN	41	2.3	29.0	LACLEDE	13	0.7
10.0	BUCHANAN	34	1.9	29.0	PULASKI	13	0.7
11.0	PLATTE	33	1.9	First Quartile			
12.0	CASS	31	1.7	Second Quartile			
13.0	JASPER	30	1.7	31.0	AUDRAIN	12	0.7
14.0	TANEY	26	1.5	33.0	MCDONALD	11	0.6
15.0	NEWTON	23	1.3	33.0	ST. FRANCOIS	11	0.6
16.5	COLE	22	1.2	33.0	WEBSTER	11	0.6
16.5	JOHNSON	22	1.2	37.0	BENTON	10	0.6
18.5	CAMDEN	20	1.1	37.0	HENRY	10	0.6
18.5	CAPE GIRARDEAU	20	1.1	37.0	LINCOLN	10	0.6
20.0	PETTIS	18	1.0				

RANK	COUNTY	FREQUENCY	PERCENT	RANK	COUNTY	FREQUENCY	PERCENT
37.0	MARION	10	0.6	81.5	GENTRY	3	0.2
37.0	WASHINGTON	10	0.6	81.5	HICKORY	3	0.2
41.0	CRAWFORD	9	0.5	81.5	HOLT	3	0.2
41.0	LAFAYETTE	9	0.5	81.5	HOWARD	3	0.2
41.0	MILLER	9	0.5	81.5	LEWIS	3	0.2
44.5	DALLAS	8	0.5	81.5	LIVINGSTON	3	0.2
44.5	LAWRENCE	8	0.5	81.5	MISSISSIPPI	3	0.2
44.5	PERRY	8	0.5	81.5	NODAWAY	3	0.2
44.5	TEXAS	8	0.5	81.5	OSAGE	3	0.2
49.0	MACON	7	0.4	81.5	SHANNON	3	0.2
49.0	MORGAN	7	0.4	81.5	WRIGHT	3	0.2
49.0	SCOTT	7	0.4	Third Quartile			
49.0	STODDARD	7	0.4	Fourth Quartile			
49.0	VERNON	7	0.4	92.5	ANDREW	2	0.1
54.5	CLINTON	6	0.3	92.5	DADE	2	0.1
54.5	OREGON	6	0.3	92.5	DE KALB	2	0.1
54.5	PEMISCOT	6	0.3	92.5	HARRISON	2	0.1
54.5	PIKE	6	0.3	92.5	LINN	2	0.1
54.5	RALLS	6	0.3	92.5	MADISON	2	0.1
54.5	WAYNE	6	0.3	92.5	NEW MADRID	2	0.1
Second Quartile				92.5	OZARK	2	0.1
Third Quartile				92.5	STE. GENEVIEVE	2	0.1
61.0	BARTON	5	0.3	92.5	SHELBY	2	0.1
61.0	BATES	5	0.3	102.0	BOLLINGER	1	0.1
61.0	COOPER	5	0.3	102.0	CARROLL	1	0.1
61.0	DENT	5	0.3	102.0	CHARITON	1	0.1
61.0	GASCONADE	5	0.3	102.0	CLARK	1	0.1
61.0	MONITEAU	5	0.3	102.0	DOUGLAS	1	0.1
61.0	MONTGOMERY	5	0.3	102.0	GRUNDY	1	0.1
70.0	ADAIR	4	0.2	102.0	KNOX	1	0.1
70.0	CEDAR	4	0.2	102.0	SCHUYLER	1	0.1
70.0	IRON	4	0.2	102.0	SULLIVAN	1	0.1
70.0	MARIES	4	0.2	111.0	ATCHISON	0	0.0
70.0	POLK	4	0.2	111.0	CALDWELL	0	0.0
70.0	RANDOLPH	4	0.2	111.0	CARTER	0	0.0
70.0	RAY	4	0.2	111.0	DAVIESS	0	0.0
70.0	REYNOLDS	4	0.2	111.0	MERCER	0	0.0
70.0	RIPLEY	4	0.2	111.0	MONROE	0	0.0
70.0	ST. CLAIR	4	0.2	111.0	PUTNAM	0	0.0
70.0	SALINE	4	0.2	111.0	SCOTLAND	0	0.0
81.5	DUNKLIN	3	0.2	111.0	WORTH	0	0.0

TABLE 3.6.15

## 2003 MOTORCYCLE INVOLVED CRASHES

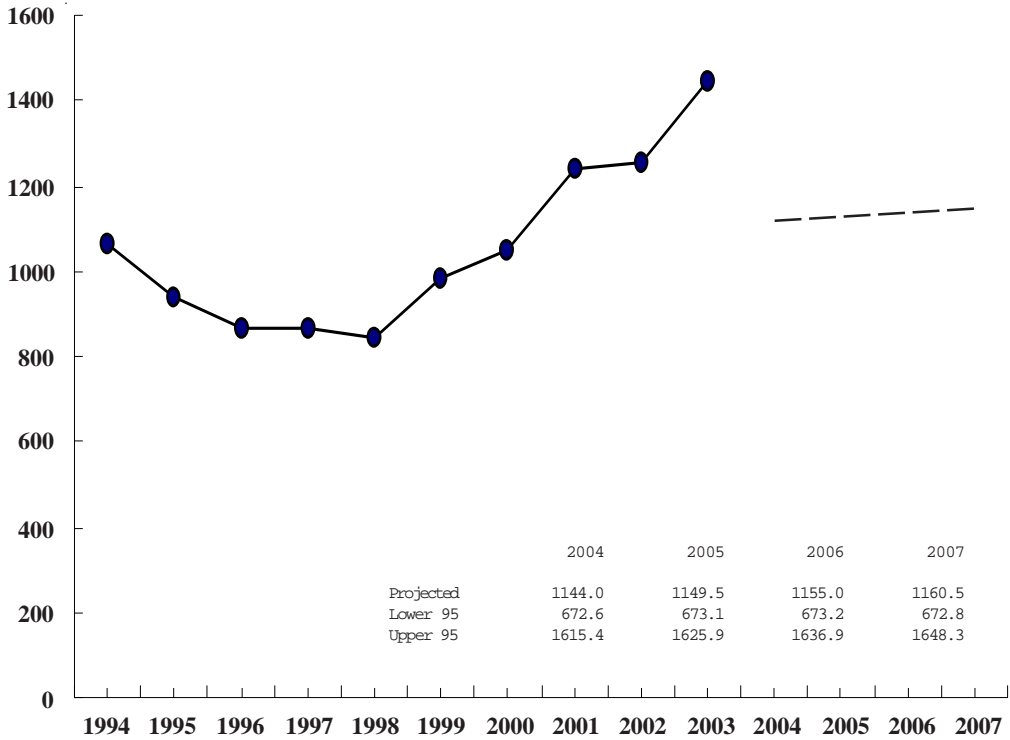
### CITY LISTING

RANK	CITY	FREQUENCY	PERCENT <sup>1</sup>
1.0	KANSAS CITY	177	17.3
2.0	ST. LOUIS	108	10.5
3.0	SPRINGFIELD	65	6.3
4.0	INDEPENDENCE	44	4.3
5.0	COLUMBIA	31	3.0
6.0	ST. JOSEPH	29	2.8
7.0	LEE'S SUMMIT	25	2.4
8.5	BLUE SPRINGS	15	1.5
8.5	JOPLIN	15	1.5
10.0	ST. CHARLES	14	1.4
12.0	BRANSON	12	1.2
12.0	GLADSTONE	12	1.2
12.0	ST. PETERS	12	1.2
14.5	CAPE GIRARDEAU	11	1.1
14.5	MARYLAND HEIGHTS	11	1.1
17.0	FLORISSANT	10	1.0
17.0	JEFFERSON CITY	10	1.0
17.0	SUNSET HILLS	10	1.0
22.0	ARNOLD	9	0.9
22.0	CARTHAGE	9	0.9
22.0	HANNIBAL	9	0.9
22.0	LIBERTY	9	0.9
22.0	O'FALLON	9	0.9
22.0	RAYTOWN	9	0.9
22.0	SEDALIA	9	0.9
29.0	BERKELEY	8	0.8
29.0	BRIDGETON	8	0.8
29.0	GRANDVIEW	8	0.8
29.0	HAZELWOOD	8	0.8
29.0	KIRKWOOD	8	0.8
29.0	OSAGE BEACH	8	0.8
29.0	ROLLA	8	0.8
34.0	CHESTERFIELD	7	0.7
34.0	MEXICO	7	0.7
34.0	WEST PLAINS	7	0.7
38.5	BELTON	6	0.6
38.5	CREVE COEUR	6	0.6
38.5	EXCELSIOR SPRINGS	6	0.6
38.5	HARRISONVILLE	6	0.6
38.5	UNION	6	0.6
38.5	UNIVERSITY CITY	6	0.6
44.5	LEBANON	5	0.5
44.5	NEOSHO	5	0.5
44.5	PARK HILL	5	0.5
44.5	POPLAR BLUFF	5	0.5
44.5	WARRENSBURG	5	0.5
44.5	WEBSTER GROVES	5	0.5

<sup>1</sup>Percentage is based on motorcycle involved crashes which occurred in Missouri municipalities with populations of 1,000 or more. Only those municipalities comprising 0.5% or more of these crashes are listed.

**TABLE 3.6.16**

**MISSOURI FATAL AND PERSONAL INJURY MOTORCYCLE INVOLVED CRASHES  
ANNUAL TIME SERIES**



**FIGURE 3.6.4**

### 3.7 SCHOOL BUS INVOLVEMENT

*This section presents a series of data displays which identify school bus involvement in Missouri's traffic crash experience. School bus involved traffic crashes are defined as any crash in which one or more school buses were directly involved in the incident or where a school bus signal was associated with the traffic crash. Data displays are presented which identify characteristics of school bus drivers in these traffic crashes.*

#### 2003 SUMMARY ANALYSIS

- Of all 2003 Missouri traffic crashes, 0.8% involved a school bus. Of all fatal traffic crashes, 0.7% involved a school bus. Seven people were killed and 699 were injured in school bus crashes.
- There was a decrease of 11.2% in the rate of change when comparing 2003 school bus traffic crashes with those in 2002.
- In 2003, one person was killed or injured in a school bus crash every 12.4 hours in the State of Missouri.
- In 88.8% of the school bus traffic crashes, one or more school buses were directly involved in the incident. In 11.2% of the cases, a school bus signal was associated with the crash.
- Of all 2003 school bus crashes, the first harmful event in 76.9% of the cases involved one motor vehicle in transport striking another motor vehicle in transport. In 15.4% of the cases one motor vehicle in transport struck a parked vehicle.
- Of all 2003 school bus traffic crashes, 72.6% occurred in urban areas of the State and 27.4% occurred in rural areas.
- Of all 2003 school bus traffic crashes, 62.2% occurred on a city street, 12.1% occurred on a county road, and 7.0% occurred on a state numbered road.
- Of all school bus drivers in traffic crashes, 40.5% were male and 59.5% were female. The average age of school bus drivers was 44.5 years.

## 2003 MISSOURI TRAFFIC CRASHES

### SCHOOL BUS INVOLVEMENT

	FATAL	%	PERSONAL INJURY	%	PROPERTY DAMAGE	%	TOTAL	%	TOTAL NUMBER <sup>1</sup> KILLED INJURED	SCHOOL BUS DRIVERS/PASSENGERS <sup>2</sup>	
										KILLED	INJURED
SCHOOL BUS INVOLVED	7	0.7	253	0.6	1,172	0.9	1,432	0.8	7	699	424
NO SCHOOL BUS INVOLVED	1,061	99.3	44,015	99.4	123,761	99.1	168,837	99.2	1,197	65,923	-
UNKNOWN <sup>3</sup>	27	-	1,698	-	10,630	-	12,355	-	28	2,499	-
<b>TOTAL</b>	<b>1,095</b>	<b>100.0</b>	<b>45,966</b>	<b>100.0</b>	<b>135,563</b>	<b>100.0</b>	<b>182,624</b>	<b>100.0</b>	<b>1,232</b>	<b>69,121</b>	<b>424</b>

<sup>1</sup>This statistic indicates the total number of persons killed and injured in a crash where one or more school buses / signals were involved.

<sup>2</sup>This statistic indicates the number of school bus drivers and passengers in the school bus killed and injured.

<sup>3</sup>Crashes were classified as unknown if the following conditions exist: none of the vehicles involved in the crash was a school bus or no school bus signals were involved and the body type of one or more vehicles in the crash was not known.

**TABLE 3.7.1**



## DIRECT SCHOOL BUS INVOLVEMENT IN 2003 MISSOURI SCHOOL BUS CRASHES

### STATUS BY CRASH SEVERITY

	FATAL	%	PERSONAL INJURY	%	PROPERTY DAMAGE	%	TOTAL	%
NONE INVOLVED <sup>1</sup>	1	14.3	37	14.6	123	10.5	161	11.2
1 INVOLVED	5	71.4	209	82.6	1,029	87.8	1,243	86.8
2 INVOLVED	1	14.3	7	2.8	20	1.7	28	2.0
<b>TOTAL</b>	<b>7</b>	<b>100.0</b>	<b>253</b>	<b>100.0</b>	<b>1,172</b>	<b>100.0</b>	<b>1,432</b>	<b>100.0</b>

<sup>1</sup>Although a school bus was not directly involved in the traffic crash, a school bus signal was involved.

**TABLE 3.7.2**

### 2002 and 2003 SCHOOL BUS INVOLVED CRASH ANALYSIS

	2002	2003	RATE OF CHANGE
FATAL	3	7	+ 133.3
PERSONAL INJURY	308	253	- 17.9
PROPERTY DAMAGE	1,301	1,172	- 9.9
<b>TOTAL</b>	<b>1,612</b>	<b>1,432</b>	<b>- 11.2</b>

**TABLE 3.7.3**

## 2003 SCHOOL BUS INVOLVED CRASHES

### CRASH TYPE BY CRASH SEVERITY

	FATAL	%	PERSONAL INJURY	%	PROPERTY DAMAGE	%	TOTAL	%
ANIMAL	0	0.0	2	0.8	4	0.3	6	0.4
BICYCLIST	0	0.0	4	1.6	2	0.2	6	0.4
FIXED OBJECT	0	0.0	12	4.7	56	4.8	68	4.8
OTHER OBJECT	0	0.0	3	1.2	5	0.4	8	0.6
PEDESTRIAN	2	28.6	6	2.4	0	0.0	8	0.6
TRAIN	0	0.0	0	0.0	0	0.0	0	0.0
VEHICLE IN TRANSPORT	5	71.4	218	86.2	878	74.9	1,101	76.9
VEHICLE ON OTHER ROADWAY	0	0.0	1	0.4	1	0.1	2	0.1
PARKED VEHICLE	0	0.0	2	0.8	219	18.7	221	15.4
NONCOLLISION OVERTURN	0	0.0	0	0.0	3	0.3	3	0.2
NONCOLLISION OTHER	0	0.0	5	2.0	4	0.3	9	0.6
<b>TOTAL</b>	7	100.0	253	100.0	1,172	100.0	1,432	100.0

**TABLE 3.7.4**

## 2003 SCHOOL BUS INVOLVED CRASHES

### AREA CLASSIFICATION BY CRASH SEVERITY

	FATAL	%	PERSONAL INJURY	%	PROPERTY DAMAGE	%	TOTAL	%
URBAN	3	42.9	184	72.7	852	72.7	1,039	72.6
RURAL	4	57.1	69	27.3	320	27.3	393	27.4
<b>TOTAL</b>	7	100.0	253	100.0	1,172	100.0	1,432	100.0

**TABLE 3.7.5**

**2003 SCHOOL BUS INVOLVED CRASHES**

**ROAD CURVATURE BY CRASH SEVERITY**

	<b>FATAL</b>	<b>%</b>	<b>PERSONAL INJURY</b>	<b>%</b>	<b>PROPERTY DAMAGE</b>	<b>%</b>	<b>TOTAL</b>	<b>%</b>
STRAIGHT	6	85.7	220	88.0	1,021	89.1	1,247	88.9
CURVE	1	14.3	30	12.0	125	10.9	156	11.1
UNKNOWN	0	-	3	-	26	-	29	-
<b>TOTAL</b>	<b>7</b>	<b>100.0</b>	<b>253</b>	<b>100.0</b>	<b>1,172</b>	<b>100.0</b>	<b>1,432</b>	<b>100.0</b>

**TABLE 3.7.6**

**2003 SCHOOL BUS INVOLVED CRASHES**

**ROAD INCLINE BY CRASH SEVERITY**

	<b>FATAL</b>	<b>%</b>	<b>PERSONAL INJURY</b>	<b>%</b>	<b>PROPERTY DAMAGE</b>	<b>%</b>	<b>TOTAL</b>	<b>%</b>
LEVEL	4	57.1	159	64.1	858	75.1	1,021	73.0
HILL	1	14.3	81	32.7	251	21.9	333	23.8
CREST	2	28.6	8	3.2	34	3.0	44	3.2
UNKNOWN	0	-	5	-	29	-	34	-
<b>TOTAL</b>	<b>7</b>	<b>100.0</b>	<b>253</b>	<b>100.0</b>	<b>1,172</b>	<b>100.0</b>	<b>1,432</b>	<b>100.0</b>

**TABLE 3.7.7**

## 2003 SCHOOL BUS INVOLVED CRASHES

### ROAD CONDITIONS BY CRASH SEVERITY

	FATAL	%	PERSONAL INJURY	%	PROPERTY DAMAGE	%	TOTAL	%
DRY	6	85.7	175	69.4	920	79.6	1,101	77.8
WET	1	14.3	62	24.6	163	14.1	226	16.0
SNOW	0	0.0	8	3.2	42	3.6	50	3.5
ICE	0	0.0	6	2.4	26	2.3	32	2.3
SLUSH	0	0.0	1	0.4	4	0.4	5	0.4
MUD	0	0.0	0	0.0	1	0.1	1	0.1
STANDING WATER	0	0.0	0	0.0	0	0.0	0	0.0
MOVING WATER	0	0.0	0	0.0	0	0.0	0	0.0
UNKNOWN	0	-	1	-	16	-	17	-
<b>TOTAL</b>	<b>7</b>	<b>100.0</b>	<b>253</b>	<b>100.0</b>	<b>1,172</b>	<b>100.0</b>	<b>1,432</b>	<b>100.0</b>

**TABLE 3.7.8**

## 2003 SCHOOL BUS INVOLVED CRASHES

### HIGHWAY CLASSIFICATION BY CRASH SEVERITY

	FATAL	%	PERSONAL INJURY	%	PROPERTY DAMAGE	%	TOTAL	%
INTERSTATE	1	14.3	20	7.9	39	3.3	60	4.2
U.S. HIGHWAY	0	0.0	16	6.3	42	3.6	58	4.1
STATE NUMBERED	2	28.6	28	11.1	70	6.0	100	7.0
SINGLE STATE LETTERED	2	28.6	15	5.9	30	2.7	47	3.3
DOUBLE STATE LETTERED	1	14.3	4	1.6	20	1.7	25	1.8
OUTER ROAD	0	0.0	5	2.0	5	0.4	10	0.7
COUNTY ROAD	0	0.0	26	10.3	147	12.5	173	12.1
CITY STREET	1	14.3	132	52.2	757	64.6	890	62.2
INTERSTATE LOOP	0	0.0	1	0.4	6	0.5	7	0.5
OTHER <sup>1</sup>	0	0.0	6	2.4	56	4.8	62	4.3
<b>TOTAL</b>	<b>7</b>	<b>100.0</b>	<b>253</b>	<b>100.0</b>	<b>1,172</b>	<b>100.0</b>	<b>1,432</b>	<b>100.0</b>

<sup>1</sup>"Other" includes types of roads that are maintained by the State as well as by local jurisdictions.

**TABLE 3.7.9**

# 2003 SCHOOL BUS INVOLVED CRASHES

## HIGHWAY CLASSIFICATION BY AREA CLASSIFICATION AND CRASH SEVERITY

	URBAN								RURAL							
	FATAL	%	PERSONAL INJURY	%	PROPERTY DAMAGE	%	TOTAL	%	FATAL	%	PERSONAL INJURY	%	PROPERTY DAMAGE	%	TOTAL	%
INTERSTATE	0	0.0	17	9.2	30	3.5	47	4.5	1	25.0	3	4.4	9	2.8	13	3.3
U.S. HIGHWAY	0	0.0	8	4.4	22	2.6	30	2.9	0	0.0	8	11.6	20	6.3	28	7.1
STATE NUMBERED	0	0.0	17	9.2	26	3.1	43	4.1	2	50.0	11	15.9	44	13.8	57	14.5
SINGLE STATE LETTERED	1	33.3	3	1.6	8	0.9	12	1.2	1	25.0	12	17.4	22	6.9	35	8.9
DOUBLE STATE LETTERED	1	33.3	0	0.0	3	0.4	4	0.4	0	0.0	4	5.8	17	5.3	21	5.3
OUTER ROAD	0	0.0	4	2.2	1	0.1	5	0.5	0	0.0	1	1.5	4	1.3	5	1.3
COUNTY ROAD	0	0.0	5	2.7	20	2.4	25	2.4	0	0.0	21	30.4	127	39.7	148	37.7
CITY STREET	1	33.3	124	67.4	693	81.3	818	78.7	0	0.0	8	11.6	64	20.0	72	18.3
INTERSTATE LOOP	0	0.0	1	0.5	5	0.6	6	0.6	0	0.0	0	0.0	1	0.3	1	0.3
OTHER <sup>1</sup>	0	0.0	5	2.7	44	5.2	49	4.7	0	0.0	1	1.5	12	3.8	13	3.3
TOTAL	3	100.0	184	100.0	852	100.0	1,039	100.0	4	100.0	69	100.0	320	100.0	393	100.0

<sup>1</sup> "Other" includes types of roads that are maintained by the State as well as by local jurisdictions.

**TABLE 3.7.10**

**2003 MISSOURI SCHOOL BUS INVOLVED CRASHES  
MONTH OF YEAR**

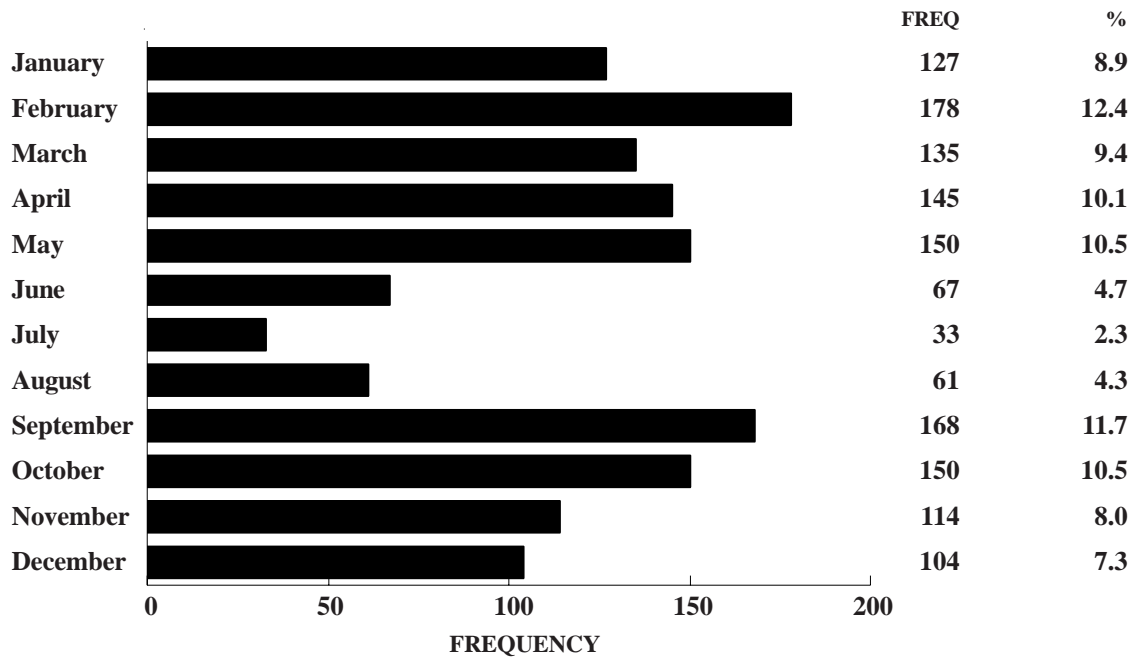


FIGURE 3.7.1

**2003 MISSOURI SCHOOL BUS INVOLVED CRASHES  
DAY OF WEEK**

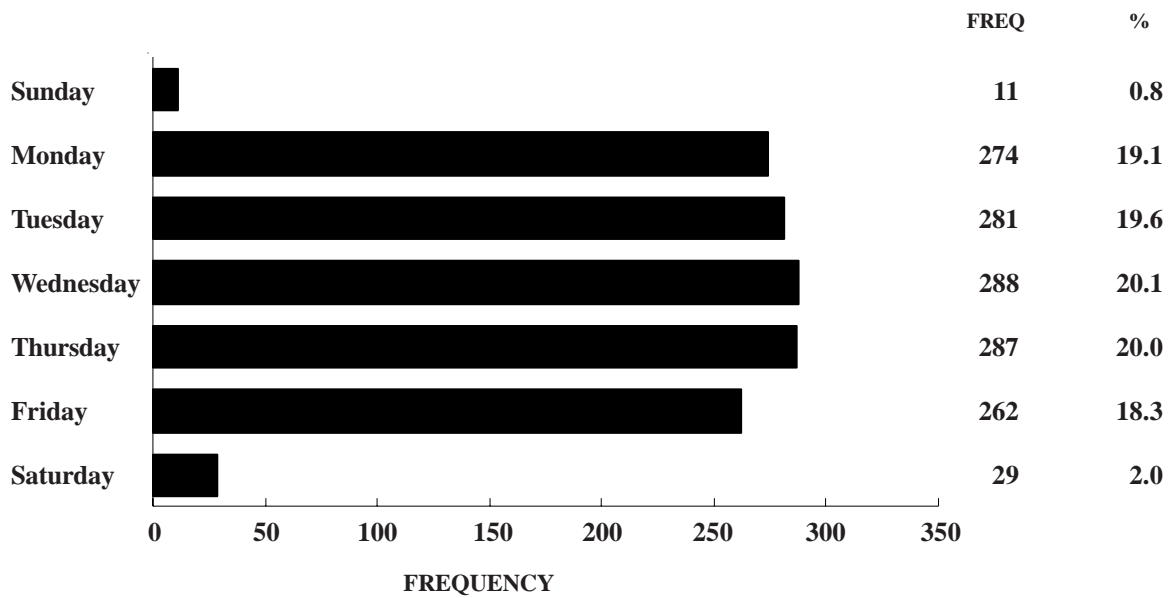
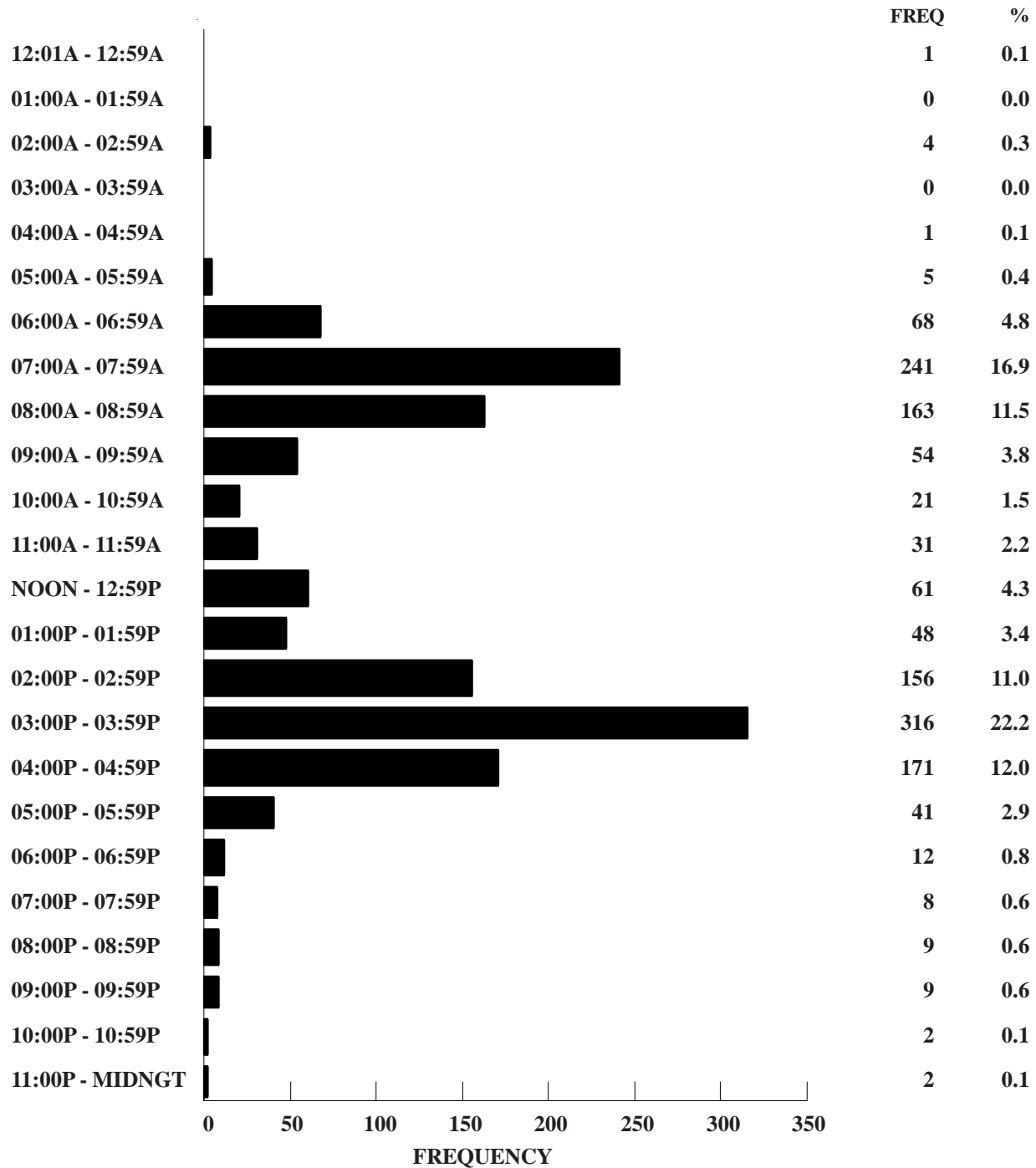


FIGURE 3.7.2

**2003 MISSOURI SCHOOL BUS INVOLVED CRASHES  
HOUR OF DAY**



Unknown Data Not Included

**FIGURE 3.7.3**

## 2003 MISSOURI SCHOOL BUS CRASHES

### TYPE OF CIRCUMSTANCE INVOLVED BY CRASH SEVERITY AND PERSON CLASSIFICATION<sup>1</sup>

FATAL SCHOOL BUS CRASHES = 7				TOTAL SCHOOL BUS CRASHES = 1,432		
	SCHOOL BUS DRIVER/VEH.	OTHER DRIVER/ VEHICLE/PED.	TOTAL FATAL	SCHOOL BUS DRIVER/VEH.	OTHER DRIVER/ VEHICLE/PED.	TOTAL CRASHES
VEHICLE DEFECTS	0.0	0.0	0.0	1.3	0.8	2.1
TRAFFIC CONTROL INOPERATIVE / MISSING	0.0	0.0	0.0	0.1	0.1	0.2
IMPROPERLY STOPPED ON ROADWAY	0.0	0.0	0.0	0.3	0.4	0.6
EXCEEDING SPEED LIMIT / TOO FAST FOR CONDITIONS	0.0	28.6	28.6	2.6	8.9	11.2
IMPROPER PASSING	0.0	0.0	0.0	0.9	2.5	3.4
VIOLATION OF STOP SIGN	0.0	14.3	14.3	0.5	3.5	3.9
WRONG SIDE NOT PASSING	0.0	28.6	28.6	0.8	1.3	1.8
FOLLOWING TOO CLOSE	0.0	0.0	0.0	2.6	10.1	12.5
IMPROPER SIGNAL	0.0	0.0	0.0	0.1	0.0	0.1
IMPROPER BACKING	0.0	0.0	0.0	3.2	1.0	4.2
IMPROPER TURN	0.0	0.0	0.0	3.8	1.9	5.7
IMPROPER LANE USAGE / CHANGE	0.0	0.0	0.0	3.6	3.4	6.6
WRONG WAY ONE-WAY STREET	0.0	0.0	0.0	0.1	0.1	0.2
IMPROPER START FROM PARK	0.0	0.0	0.0	0.1	0.2	0.3
IMPROPERLY PARKED	0.0	0.0	0.0	0.1	1.1	1.2
FAILED TO YIELD	0.0	14.3	14.3	5.7	7.7	13.1
DRINKING	0.0	0.0	0.0	0.0	0.8	0.8
DRUGS	0.0	0.0	0.0	0.0	0.2	0.2
PHYSICAL IMPAIRMENT	0.0	0.0	0.0	0.1	0.5	0.6
INATTENTION	14.3	71.4	71.4	16.3	20.7	35.3

<sup>1</sup>This table identifies the percentage of school bus crashes having a specific type of circumstance which contributed to the cause of the crash. This table further defines the percentage of crashes where the contributing circumstance was associated with the school bus driver or the school bus as well as those attributed to other persons and vehicles in the crash. For instance, when examining speed involvement in 2003 Missouri school bus crashes, it was found that a school bus driver was speeding in 2.6% of the crashes. In 8.9% of the crashes another driver was speeding. In 11.2% of the crashes either a school bus driver, another driver, or both drivers were speeding.

**TABLE 3.7.11**



### SCHOOL BUSES IN 2003 MISSOURI CRASHES

#### DRIVER INVOLVEMENT BY CRASH SEVERITY

	FATAL	%	PERSONAL INJURY	%	PROPERTY DAMAGE	%	TOTAL	%
DRIVERLESS	0	0.0	0	0.0	34	3.2	34	2.6
KNOWN DRIVER INVOLVED	7	100.0	223	100.0	1,011	94.6	1,241	95.5
UNKNOWN DRIVER INVOLVED	0	0.0	0	0.0	24	2.2	24	1.9
<b>TOTAL</b>	7	100.0	223	100.0	1,069	100.0	1,299	100.0

**TABLE 3.7.12**

### DRIVERS OF SCHOOL BUSES IN 2003 MISSOURI CRASHES

#### SEX OF DRIVER BY CRASH SEVERITY

	FATAL	%	PERSONAL INJURY	%	PROPERTY DAMAGE	%	TOTAL	%
MALE	5	71.4	91	40.8	404	40.2	500	40.5
FEMALE	2	28.6	132	59.2	601	59.8	735	59.5
UNKNOWN	0	-	0	-	30	-	30	-
<b>TOTAL</b>	7	100.0	223	100.0	1,035	100.0	1,265	100.0

**TABLE 3.7.13**

## DRIVERS OF SCHOOL BUSES IN 2003 MISSOURI CRASHES

### AGE OF DRIVER BY CRASH SEVERITY

	FATAL	%	PERSONAL INJURY	%	PROPERTY DAMAGE	%	TOTAL	%
<b>AVERAGE AGE OF DRIVER</b>	45.1	-	44.1	-	44.6	-	44.5	-
14 YEARS AND UNDER	0	0.0	0	0.0	0	0.0	0	0.0
15 - 20 YEARS	0	0.0	3	1.4	6	0.6	9	0.7
21 - 25 YEARS	0	0.0	14	6.3	65	6.5	79	6.4
26 - 30 YEARS	1	14.3	17	7.7	98	9.8	116	9.5
31 - 35 YEARS	1	14.3	28	12.7	110	11.0	139	11.3
36 - 40 YEARS	1	14.3	28	12.7	138	13.8	167	13.6
41 - 45 YEARS	1	14.3	34	15.4	142	14.2	177	14.4
46 - 50 YEARS	0	0.0	33	14.9	114	11.4	147	12.0
51 - 55 YEARS	1	14.3	11	5.0	88	8.8	100	8.2
56 - 60 YEARS	1	14.3	20	9.1	82	8.2	103	8.4
61 - 65 YEARS	1	14.3	23	10.4	73	7.3	97	7.9
66 YEARS AND OVER	0	0.0	10	4.5	83	8.3	93	7.6
UNKNOWN	0	-	2	-	36	-	38	-
<b>TOTAL</b>	7	100.0	223	100.0	1,035	100.0	1,265	100.0

**TABLE 3.7.14**

**DRIVERS OF SCHOOL BUSES IN 2003 MISSOURI CRASHES**

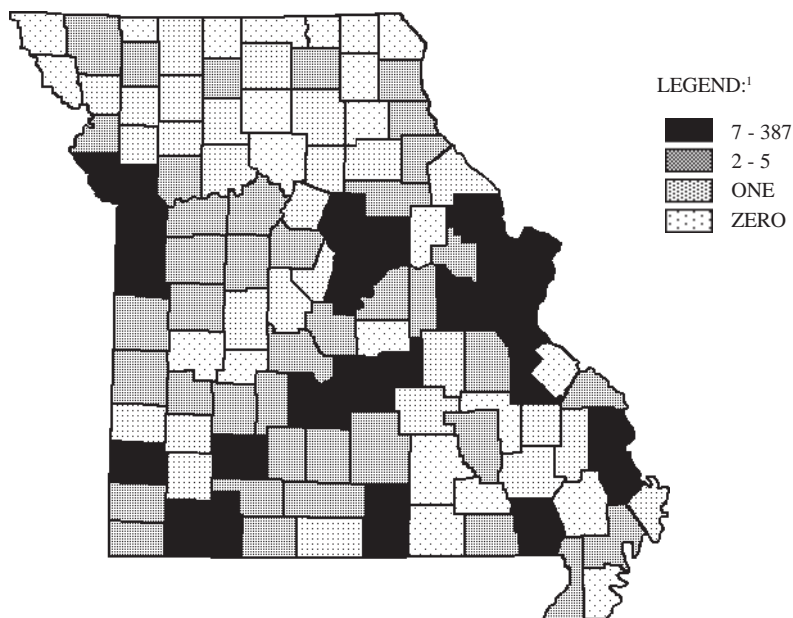
**DRIVER'S LICENSE STATE AND TYPE BY CRASH SEVERITY**

	FATAL	%	PERSONAL INJURY	%	PROPERTY DAMAGE	%	TOTAL	%
<b>MISSOURI</b>								
LEARNER'S PERMIT	0	0.0	0	0.0	0	0.0	0	0.0
OPERATOR'S LICENSE	0	0.0	22	9.9	170	17.0	192	15.6
MOTORCYCLE ONLY	0	0.0	0	0.0	0	0.0	0	0.0
COMMERCIAL DRIVER'S LICENSE	5	71.4	184	82.5	793	79.5	982	80.0
SUBTOTAL	5	71.4	206	92.4	963	96.5	1,174	95.6
<b>OUT STATE</b>								
LEARNER'S PERMIT	0	0.0	0	0.0	0	0.0	0	0.0
OPERATOR'S LICENSE	0	0.0	3	1.4	12	1.2	15	1.2
MOTORCYCLE ONLY	0	0.0	0	0.0	0	0.0	0	0.0
COMMERCIAL DRIVER'S LICENSE	2	28.6	13	5.8	21	2.1	36	2.9
SUBTOTAL	2	28.6	16	7.2	33	3.3	51	4.2
UNLICENSED	0	0.0	1	0.5	2	0.2	3	0.3
UNKNOWN	0	-	0	-	37	-	37	-
<b>TOTAL</b>	<b>7</b>	<b>100.0</b>	<b>223</b>	<b>100.0</b>	<b>1,035</b>	<b>100.0</b>	<b>1,265</b>	<b>100.0</b>

**TABLE 3.7.15**

## 2003 SCHOOL BUS INVOLVED CRASHES

### COUNTY QUARTILE ANALYSIS



<sup>1</sup>LEGEND CATEGORIES ARE BASED ON QUARTILES OF COUNTIES.

RANK	COUNTY	FREQUENCY	PERCENT	RANK	COUNTY	FREQUENCY	PERCENT
1.0	ST. LOUIS CITY	387	27.0	20.5	STONE	8	0.6
2.0	ST. LOUIS	262	18.3	23.5	BUTLER	7	0.5
3.0	JACKSON	214	14.9	23.5	CALLAWAY	7	0.5
4.0	ST. CHARLES	68	4.7	23.5	PHELPS	7	0.5
5.0	GREENE	41	2.9	23.5	SCOTT	7	0.5
6.0	BOONE	36	2.5	First Quartile			
7.0	CLAY	35	2.4	Second Quartile			
8.0	JEFFERSON	31	2.2	29.5	BUCHANAN	5	0.3
9.0	FRANKLIN	26	1.8	29.5	CAMDEN	5	0.3
10.0	PLATTE	21	1.5	29.5	DALLAS	5	0.3
11.0	CAPE GIRARDEAU	16	1.1	29.5	JOHNSON	5	0.3
12.0	CASS	15	1.0	29.5	LAFAYETTE	5	0.3
14.0	COLE	13	0.9	29.5	NEWTON	5	0.3
14.0	JASPER	13	0.9	29.5	NODAWAY	5	0.3
14.0	ST. FRANCOIS	13	0.9	29.5	PERRY	5	0.3
16.0	LINCOLN	11	0.8	39.0	CEDAR	4	0.3
17.0	BARRY	10	0.7	39.0	COOPER	4	0.3
18.5	HOWELL	9	0.6	39.0	DUNKLIN	4	0.3
18.5	PULASKI	9	0.6	39.0	GASCONADE	4	0.3
20.5	LACLEDE	8	0.6				

RANK	COUNTY	FREQUENCY	PERCENT	RANK	COUNTY	FREQUENCY	PERCENT
39.0	OSAGE	4	0.3	79.0	DENT	1	0.1
39.0	POLK	4	0.3	79.0	HARRISON	1	0.1
39.0	RAY	4	0.3	79.0	HOWARD	1	0.1
39.0	TANEY	4	0.3	79.0	LAWRENCE	1	0.1
39.0	WARREN	4	0.3	79.0	LIVINGSTON	1	0.1
39.0	WEBSTER	4	0.3	79.0	MACON	1	0.1
39.0	WRIGHT	4	0.3	79.0	MADISON	1	0.1
47.0	CHRISTIAN	3	0.2	79.0	MISSISSIPPI	1	0.1
47.0	NEW MADRID	3	0.2	79.0	MONITEAU	1	0.1
47.0	PETTIS	3	0.2	79.0	MONROE	1	0.1
47.0	VERNON	3	0.2	79.0	MORGAN	1	0.1
47.0	WASHINGTON	3	0.2	79.0	OZARK	1	0.1
57.5	ADAIR	2	0.1	79.0	PIKE	1	0.1
57.5	AUDRAIN	2	0.1	79.0	RANDOLPH	1	0.1
57.5	BATES	2	0.1	79.0	SULLIVAN	1	0.1
57.5	DOUGLAS	2	0.1	79.0	WAYNE	1	0.1
57.5	GENTRY	2	0.1	Third Quartile			
57.5	GRUNDY	2	0.1	Fourth Quartile			
57.5	HENRY	2	0.1	104.0	ATCHISON	0	0.0
57.5	LEWIS	2	0.1	104.0	CARTER	0	0.0
57.5	MC DONALD	2	0.1	104.0	CHARITON	0	0.0
57.5	MARION	2	0.1	104.0	CLARK	0	0.0
57.5	MILLER	2	0.1	104.0	HICKORY	0	0.0
57.5	RALLS	2	0.1	104.0	HOLT	0	0.0
57.5	REYNOLDS	2	0.1	104.0	IRON	0	0.0
57.5	RIPLEY	2	0.1	104.0	KNOX	0	0.0
57.5	SALINE	2	0.1	104.0	LINN	0	0.0
57.5	TEXAS	2	0.1	104.0	MARIES	0	0.0
Second Quartile				104.0	MERCER	0	0.0
Third Quartile				104.0	MONTGOMERY	0	0.0
79.0	ANDREW	1	0.1	104.0	OREGON	0	0.0
79.0	BARTON	1	0.1	104.0	PEMISCOT	0	0.0
79.0	BENTON	1	0.1	104.0	PUTNAM	0	0.0
79.0	BOLLINGER	1	0.1	104.0	ST. CLAIR	0	0.0
79.0	CALDWELL	1	0.1	104.0	STE. GENEVIEVE	0	0.0
79.0	CARROLL	1	0.1	104.0	SCHUYLER	0	0.0
79.0	CLINTON	1	0.1	104.0	SCOTLAND	0	0.0
79.0	CRAWFORD	1	0.1	104.0	SHANNON	0	0.0
79.0	DADE	1	0.1	104.0	SHELBY	0	0.0
79.0	DAVIESS	1	0.1	104.0	STODDARD	0	0.0
79.0	DE KALB	1	0.1	104.0	WORTH	0	0.0

TABLE 3.7.16

## 2003 SCHOOL BUS INVOLVED CRASHES

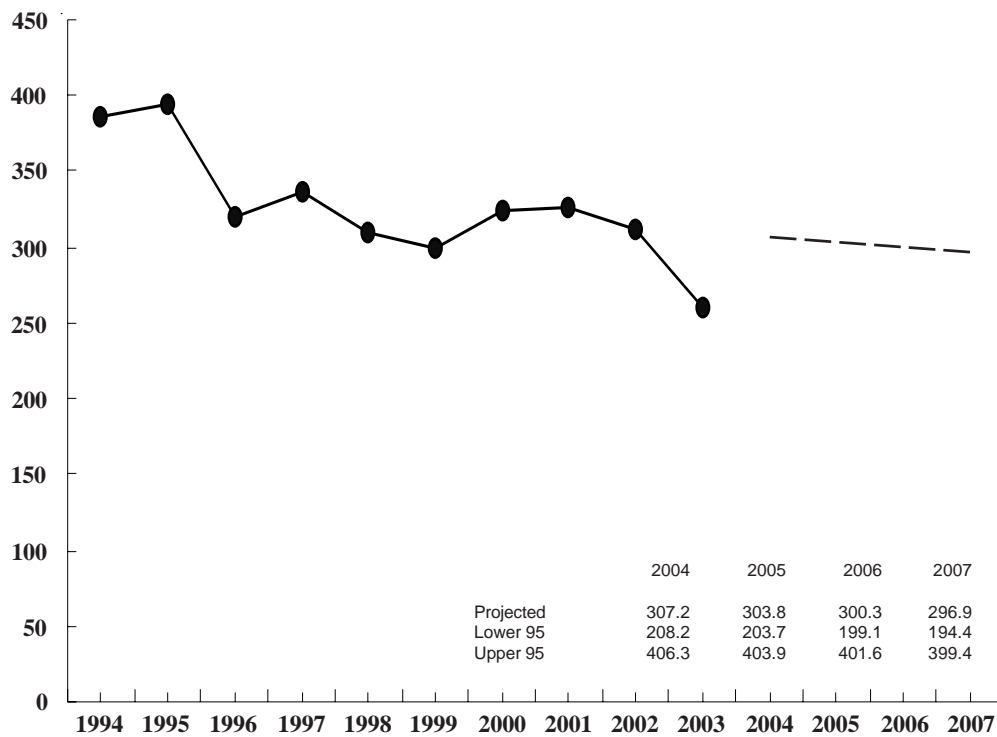
### CITY LISTING

RANK	CITY	FREQUENCY	PERCENT <sup>1</sup>
1.0	ST. LOUIS	387	34.3
2.0	KANSAS CITY	178	15.8
3.0	COLUMBIA	31	2.7
4.0	SPRINGFIELD	29	2.6
5.0	INDEPENDENCE	15	1.3
6.0	LEE'S SUMMIT	14	1.2
8.5	FERGUSON	12	1.1
8.5	JEFFERSON CITY	12	1.1
8.5	MARYLAND HEIGHTS	12	1.1
8.5	WENTZVILLE	12	1.1
11.5	CHESTERFIELD	11	1.0
11.5	CREVE COEUR	11	1.0
14.0	BLUE SPRINGS	10	0.9
14.0	O'FALLON	10	0.9
14.0	ST. PETERS	10	0.9
17.0	KIRKWOOD	9	0.8
17.0	LIBERTY	9	0.8
17.0	RAYTOWN	9	0.8
22.0	BELLEFONTAINE NEIGHBORS	8	0.7
22.0	CAPE GIRARDEAU	8	0.7
22.0	FLORISSANT	8	0.7
22.0	JOPLIN	8	0.7
22.0	MANCHESTER	8	0.7
22.0	UNIVERSITY CITY	8	0.7
22.0	WILDWOOD	8	0.7
26.5	TOWN AND COUNTRY	7	0.6
26.5	WASHINGTON	7	0.6
30.0	GLADSTONE	6	0.5
30.0	LEBANON	6	0.5
30.0	PINE LAWN	6	0.5
30.0	RICHMOND HEIGHTS	6	0.5
30.0	ST. CHARLES	6	0.5

<sup>1</sup>Percentage is based on school bus involved crashes which occurred in Missouri municipalities with populations of 1,000 or more. Only those municipalities comprising 0.5% or more of these crashes are listed.

**TABLE 3.7.17**

# **MISSOURI FATAL AND PERSONAL INJURY SCHOOL BUS INVOLVED CRASHES ANNUAL TIME SERIES**



**FIGURE 3.7.4**

### 3.8 BICYCLE INVOLVEMENT

***This section presents a series of data displays which identify bicycle involvement in Missouri's traffic crash experience. Bicycle involved traffic crashes are defined as any crash in which one or more bicycles were directly involved in the incident. Data displays also are provided which describe characteristics of the bicyclist as well as other drivers and vehicles in the traffic crash.***

#### 2003 SUMMARY ANALYSIS

- Of all 2003 Missouri traffic crashes, 0.4% involved a bicycle. Of all fatal traffic crashes, 0.8% involved a bicycle. Nine persons were killed and 655 were injured in these traffic crashes.
- There was an increase of 3.0% in the rate of change when comparing total 2003 bicycle-related traffic crashes with those in 2002. There was a decrease of 43.8% when comparing fatal 2003 bicycle-related crashes with 2002.
- In 2003, one person was killed or injured in a bicycle traffic crash every 13.2 hours in the State of Missouri.
- Of all 2003 bicycle traffic crashes, 78.4% occurred in an urban area and 21.6% occurred in a rural area of the State.
- Of all 2003 bicycle traffic crashes, 75.2% occurred on a city street.
- Of all 2003 bicycle traffic crashes, 73.3% occurred from April through September.
- Of all bicycle drivers in traffic crashes, 82.4% were male and 17.6% were female. The average age of bicycle drivers was 21.8 years.
- Of all other types of vehicles in bicycle crashes, 65.2% were automobiles and 13.2% were pickup trucks.



## 2003 MISSOURI TRAFFIC CRASHES

### BICYCLE INVOLVEMENT

	FATAL	%	PERSONAL INJURY	%	PROPERTY DAMAGE	%	TOTAL	%	TOTAL KILLED	TOTAL NUMBER <sup>1</sup> INJURED	BICYCLE DRIVERS/PASSENGERS <sup>2</sup>	
											KILLED	INJURED
BICYCLE INVOLVED	9	0.8	629	1.4	140	0.1	778	0.4	9	655	9	643
NO BICYCLE INVOLVED	1,081	99.2	45,102	98.6	129,918	99.9	176,101	99.6	1,218	68,142	-	-
UNKNOWN <sup>3</sup>	5	-	235	-	5,505	-	5,745	-	5	324	-	-
<b>TOTAL</b>	<b>1,095</b>	<b>100.0</b>	<b>45,966</b>	<b>100.0</b>	<b>135,563</b>	<b>100.0</b>	<b>182,624</b>	<b>100.0</b>	<b>1,232</b>	<b>69,121</b>	<b>9</b>	<b>643</b>

<sup>1</sup>This statistic indicates the total number of persons killed and injured in a crash where one or more bicycles were involved.

<sup>2</sup>This statistic indicates the number of bicycle drivers and passengers killed and injured.

<sup>3</sup>Crashes were classified as unknown if the following conditions exist: none of the vehicles involved in the crash was a bicycle and the body type of one or more vehicles involved in the accident was not known.

**TABLE 3.8.1**

### 2002 and 2003 BICYCLE INVOLVED CRASH ANALYSIS

	2002	2003	RATE OF CHANGE
FATAL	16	9	- 43.8
PERSONAL INJURY	617	629	+ 1.9
PROPERTY DAMAGE	122	140	+ 14.8
TOTAL	755	778	+ 3.0

**TABLE 3.8.2**

### 2003 BICYCLE INVOLVED CRASHES

#### AREA CLASSIFICATION BY CRASH SEVERITY

	FATAL	%	PERSONAL INJURY	%	PROPERTY DAMAGE	%	TOTAL	%
URBAN	5	55.6	492	78.2	113	80.7	610	78.4
RURAL	4	44.4	137	21.8	27	19.3	168	21.6
TOTAL	9	100.0	629	100.0	140	100.0	778	100.0

**TABLE 3.8.3**

### 2003 BICYCLE INVOLVED CRASHES

#### ROAD CURVATURE BY CRASH SEVERITY

	FATAL	%	PERSONAL INJURY	%	PROPERTY DAMAGE	%	TOTAL	%
STRAIGHT	6	66.7	589	94.4	130	97.0	725	94.5
CURVE	3	33.3	35	5.6	4	3.0	42	5.5
UNKNOWN	0	-	5	-	6	-	11	-
TOTAL	9	100.0	629	100.0	140	100.0	778	100.0

**TABLE 3.8.4**

**2003 BICYCLE INVOLVED CRASHES**

**ROAD INCLINE BY CRASH SEVERITY**

	<b>FATAL</b>	<b>%</b>	<b>PERSONAL INJURY</b>	<b>%</b>	<b>PROPERTY DAMAGE</b>	<b>%</b>	<b>TOTAL</b>	<b>%</b>
LEVEL	5	55.6	464	74.8	99	76.1	568	74.8
HILL	4	44.4	141	22.7	30	23.1	175	23.1
CREST	0	0.0	15	2.4	1	0.8	16	2.1
UNKNOWN	0	-	9	-	10	-	19	-
<b>TOTAL</b>	<b>9</b>	<b>100.0</b>	<b>629</b>	<b>100.0</b>	<b>140</b>	<b>100.0</b>	<b>778</b>	<b>100.0</b>

**TABLE 3.8.5**

**2003 BICYCLE INVOLVED CRASHES**

**ROAD CONDITIONS BY CRASH SEVERITY**

	<b>FATAL</b>	<b>%</b>	<b>PERSONAL INJURY</b>	<b>%</b>	<b>PROPERTY DAMAGE</b>	<b>%</b>	<b>TOTAL</b>	<b>%</b>
DRY	9	100.0	587	94.1	134	97.1	730	94.7
WET	0	0.0	35	5.6	4	2.9	39	5.1
SNOW	0	0.0	2	0.3	0	0.0	2	0.2
ICE	0	0.0	0	0.0	0	0.0	0	0.0
SLUSH	0	0.0	0	0.0	0	0.0	0	0.0
MUD	0	0.0	0	0.0	0	0.0	0	0.0
STANDING WATER	0	0.0	0	0.0	0	0.0	0	0.0
MOVING WATER	0	0.0	0	0.0	0	0.0	0	0.0
UNKNOWN	0	-	5	-	2	-	7	-
<b>TOTAL</b>	<b>9</b>	<b>100.0</b>	<b>629</b>	<b>100.0</b>	<b>140</b>	<b>100.0</b>	<b>778</b>	<b>100.0</b>

**TABLE 3.8.6**

## 2003 BICYCLE INVOLVED CRASHES

### HIGHWAY CLASSIFICATION BY CRASH SEVERITY

	FATAL	%	PERSONAL INJURY	%	PROPERTY DAMAGE	%	TOTAL	%
INTERSTATE	0	0.0	1	0.2	0	0.0	1	0.1
U.S. HIGHWAY	2	22.2	15	2.4	3	2.1	20	2.6
STATE NUMBERED	0	0.0	30	4.8	6	4.3	36	4.6
SINGLE STATE LETTERED	1	11.1	11	1.8	1	0.7	13	1.7
DOUBLE STATE LETTERED	1	11.1	16	2.5	2	1.4	19	2.4
OUTER ROAD	1	11.1	4	0.6	1	0.7	6	0.8
COUNTY ROAD	0	0.0	52	8.3	14	10.0	66	8.5
CITY STREET	4	44.4	479	76.2	102	72.9	585	75.2
INTERSTATE LOOP	0	0.0	1	0.2	0	0.0	1	0.1
OTHER <sup>1</sup>	0	0.0	20	3.2	11	7.9	31	4.0
<b>TOTAL</b>	<b>9</b>	<b>100.0</b>	<b>629</b>	<b>100.0</b>	<b>140</b>	<b>100.0</b>	<b>778</b>	<b>100.0</b>

<sup>1</sup>"Other" includes types of roads that are maintained by the State as well as by local jurisdictions.

**TABLE 3.8.7**

**2003 MISSOURI BICYCLE INVOLVED CRASHES  
MONTH OF YEAR**

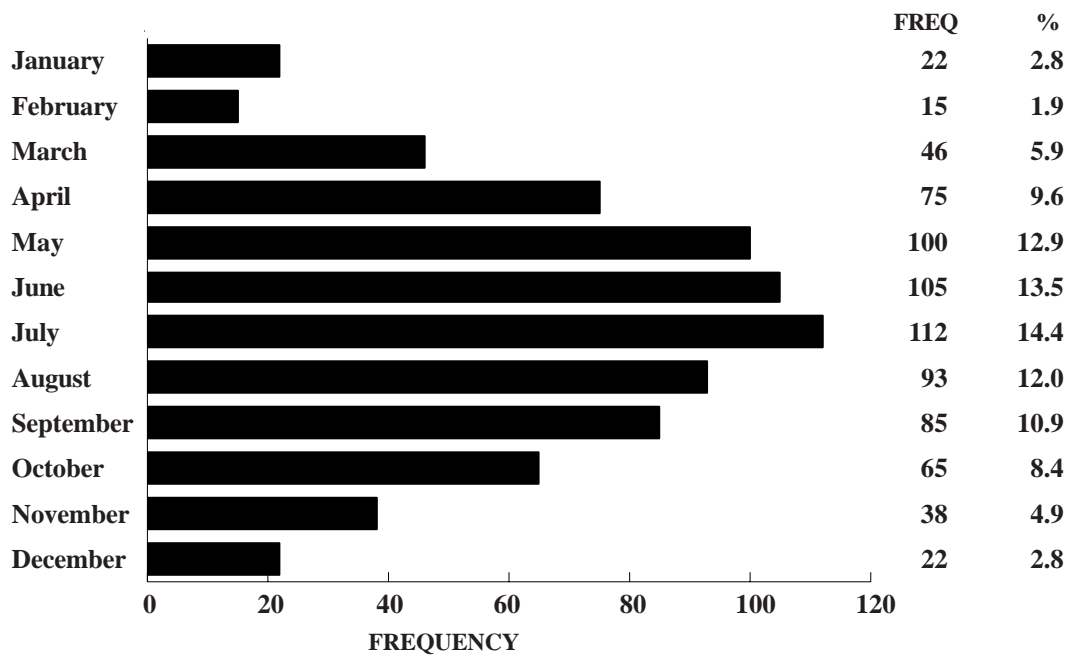


FIGURE 3.8.1

---

**2003 MISSOURI BICYCLE INVOLVED CRASHES  
DAY OF WEEK**

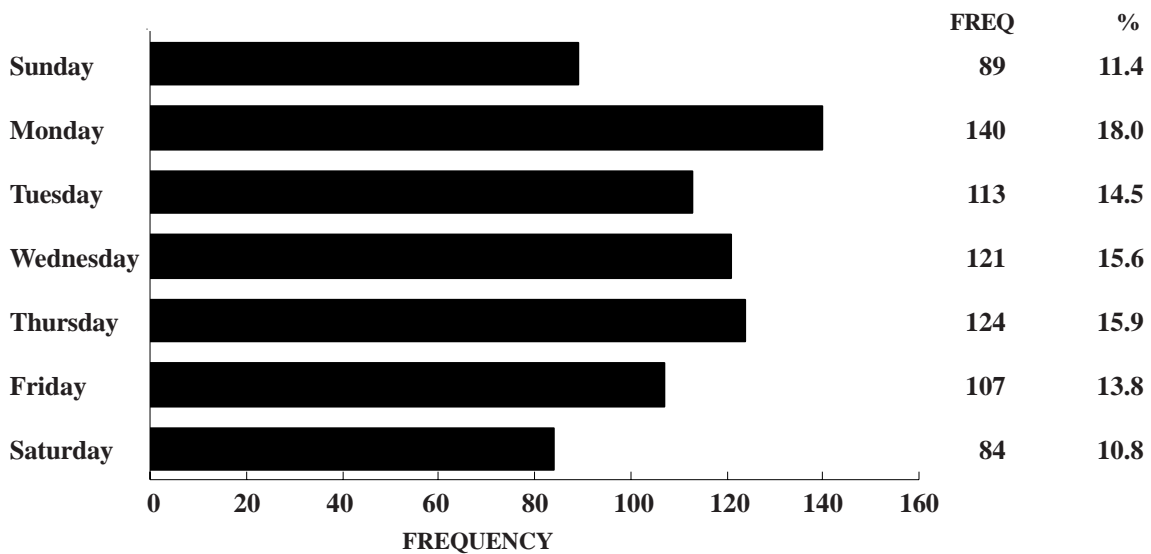
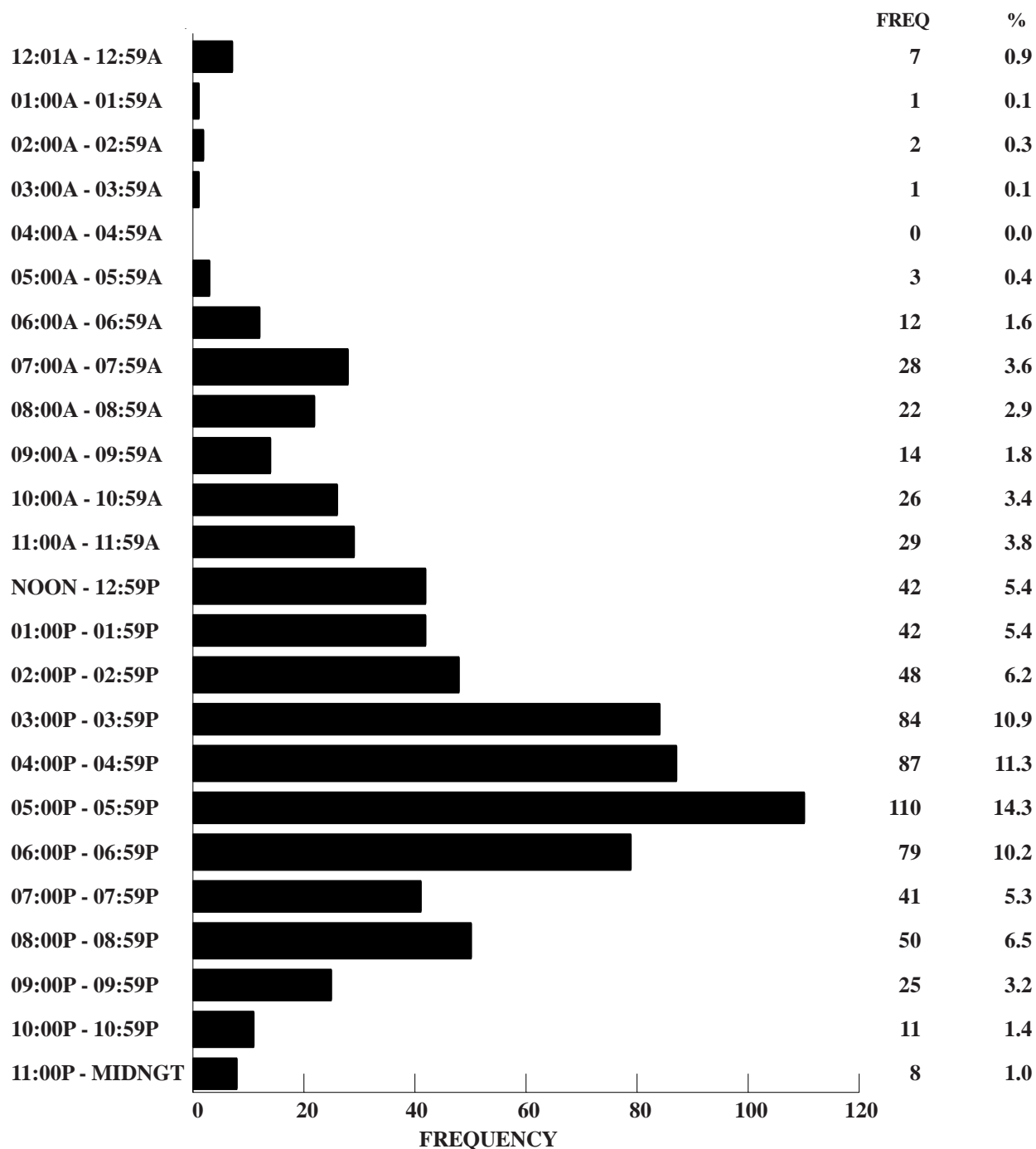


FIGURE 3.8.2

**2003 MISSOURI BICYCLE INVOLVED CRASHES  
HOUR OF DAY**



Unknown Data Not Included

**FIGURE 3.8.3**

## 2003 MISSOURI BICYCLE CRASHES

### TYPE OF CIRCUMSTANCE INVOLVED BY CRASH SEVERITY AND PERSON CLASSIFICATION<sup>1</sup>

FATAL BICYCLE CRASHES = 9				TOTAL BICYCLE CRASHES = 778		
	BICYCLE DRIVER/VEH.	OTHER DRIVER/ VEHICLE/PED.	TOTAL FATAL	BICYCLE DRIVER/VEH.	OTHER DRIVER/ VEHICLE/PED.	TOTAL CRASHES
VEHICLE DEFECTS	0.0	0.0	0.0	4.5	0.1	4.6
TRAFFIC CONTROL INOPERATIVE / MISSING	0.0	0.0	0.0	0.0	0.0	0.0
IMPROPERLY STOPPED ON ROADWAY	0.0	0.0	0.0	0.3	0.0	0.3
EXCEEDING SPEED LIMIT/ TOO FAST FOR CONDITIONS	0.0	22.2	22.2	1.8	3.3	5.1
IMPROPER PASSING	0.0	11.1	11.1	0.3	1.0	1.3
VIOLATION OF STOP SIGN	22.2	0.0	22.2	10.5	1.4	11.6
WRONG SIDE NOT PASSING	11.1	11.1	22.2	3.7	0.6	4.4
FOLLOWING TOO CLOSE	0.0	0.0	0.0	0.3	1.0	1.2
IMPROPER SIGNAL	0.0	0.0	0.0	0.3	0.1	0.4
IMPROPER BACKING	0.0	0.0	0.0	0.0	0.3	0.3
IMPROPER TURN	0.0	11.1	11.1	1.7	1.9	3.6
IMPROPER LANE USAGE / CHANGE	0.0	0.0	0.0	6.6	1.7	8.1
WRONG WAY ONE-WAY STREET	0.0	0.0	0.0	1.0	0.0	1.0
IMPROPER START FROM PARK	0.0	0.0	0.0	0.0	0.1	0.1
IMPROPERLY PARKED	0.0	0.0	0.0	0.0	0.1	0.1
FAILED TO YIELD	11.1	11.1	22.2	25.2	15.2	39.1
DRINKING	0.0	11.1	11.1	1.5	0.5	2.1
DRUGS	0.0	0.0	0.0	0.0	0.1	0.1
PHYSICAL IMPAIRMENT	0.0	0.0	0.0	0.3	0.1	0.4
INATTENTION	22.2	0.0	22.2	23.9	19.2	37.3

<sup>1</sup>This table identifies the percentage of bicycle crashes having a specific type of circumstance which contributed to the cause of the crash. This table further defines the percentage of crashes where the contributing circumstance was associated with the bicyclist or his bicycle as well as those attributed to other persons and vehicles in the crash. For instance, when examining driver failure to yield in 2003 Missouri bicycle crashes, it was found that a bicyclist failed to yield in 25.2% of the crashes. In 15.2% of the crashes another driver failed to yield. In 39.1% of the crashes either a bicyclist, another driver, or both drivers failed to yield.

**TABLE 3.8.8**

## BICYCLES IN 2003 MISSOURI CRASHES

### DRIVER INVOLVEMENT BY CRASH SEVERITY

	FATAL	%	PERSONAL INJURY	%	PROPERTY DAMAGE	%	TOTAL	%
DRIVERLESS	0	0.0	0	0.0	0	0.0	0	0.0
KNOWN DRIVER INVOLVED	9	100.0	633	100.0	135	95.7	777	99.2
UNKNOWN DRIVER INVOLVED	0	0.0	0	0.0	6	4.3	6	0.8
<b>TOTAL</b>	9	100.0	633	100.0	141	100.0	783	100.0

**TABLE 3.8.9**

## BICYCLE DRIVERS IN 2003 MISSOURI CRASHES

### SEX OF DRIVER BY CRASH SEVERITY

	FATAL	%	PERSONAL INJURY	%	PROPERTY DAMAGE	%	TOTAL	%
MALE	7	77.8	517	81.7	114	86.4	638	82.4
FEMALE	2	22.2	116	18.3	18	13.6	136	17.6
UNKNOWN	0	-	0	-	9	-	9	-
<b>TOTAL</b>	9	100.0	633	100.0	141	100.0	783	100.0

**TABLE 3.8.10**



# **BICYCLE DRIVERS IN 2003 MISSOURI CRASHES**

## **AGE OF DRIVER BY CRASH SEVERITY**

	<b>FATAL</b>	<b>%</b>	<b>PERSONAL INJURY</b>	<b>%</b>	<b>PROPERTY DAMAGE</b>	<b>%</b>	<b>TOTAL</b>	<b>%</b>
<b>AVERAGE AGE OF DRIVER</b>	26.2	-	21.8	-	21.3	-	21.8	-
5 YEARS AND UNDER	1	11.1	19	3.1	1	0.9	21	2.8
6 - 10 YEARS	0	0.0	117	19.0	24	20.9	141	19.0
11 - 15 YEARS	4	44.4	188	30.5	37	32.2	229	30.9
16 - 20 YEARS	1	11.1	72	11.7	9	7.8	82	11.1
21 - 25 YEARS	0	0.0	40	6.5	11	9.6	51	6.9
26 - 30 YEARS	0	0.0	21	3.4	6	5.2	27	3.6
31 - 35 YEARS	0	0.0	30	4.9	7	6.1	37	5.0
36 - 40 YEARS	1	11.1	31	5.0	5	4.4	37	5.0
41 - 45 YEARS	0	0.0	38	6.2	7	6.1	45	6.1
46 - 50 YEARS	1	11.1	18	2.9	1	0.9	20	2.7
51 - 55 YEARS	0	0.0	21	3.4	5	4.4	26	3.5
56 - 60 YEARS	0	0.0	8	1.3	0	0.0	8	1.1
61 - 65 YEARS	0	0.0	4	0.7	1	0.9	5	0.7
66 YEARS AND OVER	1	11.1	10	1.6	1	0.9	12	1.6
UNKNOWN	0	-	16	-	26	-	42	-
<b>TOTAL</b>	9	100.0	633	100.0	141	100.0	783	100.0

**TABLE 3.8.11**

**2003 BICYCLE INVOLVED CRASHES<sup>1</sup>**

**OTHER TYPES OF VEHICLES INVOLVED BY CRASH SEVERITY**

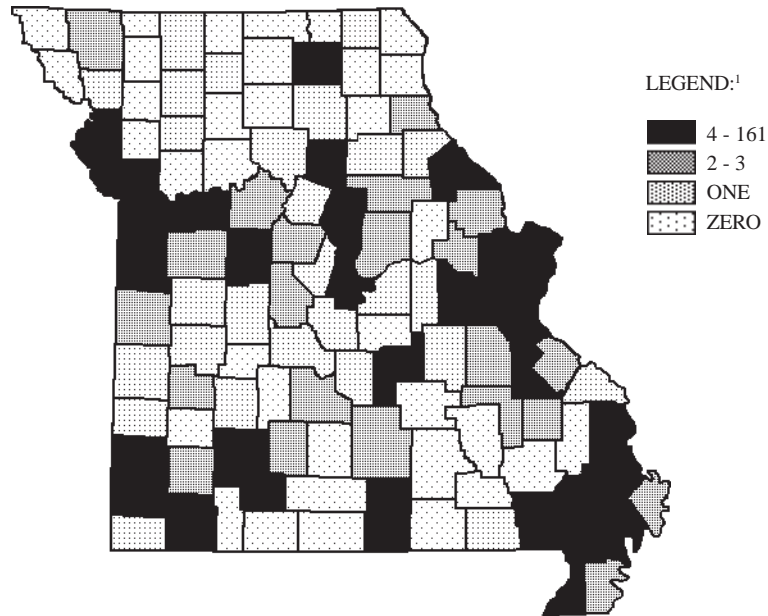
	<b>FATAL</b>	<b>%</b>	<b>PERSONAL INJURY</b>	<b>%</b>	<b>PROPERTY DAMAGE</b>	<b>%</b>	<b>TOTAL</b>	<b>%</b>
AUTOMOBILE	6	60.0	414	65.6	88	63.8	508	65.2
SPORT UTILITY VEHICLE	0	0.0	62	9.8	17	12.3	79	10.1
LIMOUSINE	0	0.0	0	0.0	0	0.0	0	0.0
VAN	1	10.0	54	8.6	12	8.7	67	8.6
BUS	0	0.0	4	0.6	1	0.7	5	0.6
SCHOOL BUS	0	0.0	4	0.6	1	0.7	5	0.6
MOTORCYCLE	0	0.0	2	0.3	0	0.0	2	0.3
MOPED	0	0.0	0	0.0	0	0.0	0	0.0
MOTOR HOME / CAMPER	0	0.0	0	0.0	0	0.0	0	0.0
FARM EQUIPMENT	0	0.0	0	0.0	0	0.0	0	0.0
CONSTRUCTION EQUIPMENT	0	0.0	0	0.0	0	0.0	0	0.0
OTHER TRANSPORT DEVICE	0	0.0	0	0.0	1	0.7	1	0.1
PICKUP TRUCK	2	20.0	84	13.3	17	12.3	103	13.2
OTHER TRUCKS	0	0.0	7	1.1	1	0.7	8	1.0
ALL TERRAIN VEHICLE	1	10.0	0	0.0	0	0.0	1	0.1
UNKNOWN	0	-	6	-	2	-	8	-
<b>TOTAL</b>	10	100.0	637	100.0	140	100.0	787	100.0

<sup>1</sup>This table includes all vehicle types (excluding bicycles) involved in bicycle crashes.

**TABLE 3.8.12**

## 2003 BICYCLE INVOLVED CRASHES

### COUNTY QUARTILE ANALYSIS



<sup>1</sup>LEGEND CATEGORIES ARE BASED ON QUARTILES OF COUNTIES.

RANK	COUNTY	FREQUENCY	PERCENT	RANK	COUNTY	FREQUENCY	PERCENT
1.0	ST. LOUIS	161	20.7	21.0	NEWTON	6	0.8
2.0	JACKSON	114	14.7	21.0	SCOTT	6	0.8
3.0	ST. LOUIS CITY	110	14.1	23.0	HOWELL	5	0.6
4.0	GREENE	47	6.0	27.5	ADAIR	4	0.5
5.0	BOONE	33	4.2	27.5	CHRISTIAN	4	0.5
6.0	JASPER	29	3.7	27.5	LAFAYETTE	4	0.5
7.0	ST. CHARLES	26	3.3	27.5	NEW MADRID	4	0.5
8.0	BUCHANAN	21	2.7	27.5	PHELPS	4	0.5
9.0	CAPE GIRARDEAU	15	1.9	27.5	PIKE	4	0.5
10.0	CLAY	13	1.7	27.5	PLATTE	4	0.5
11.0	FRANKLIN	10	1.3	27.5	STODDARD	4	0.5
12.5	COLE	9	1.2	First Quartile			
12.5	PETTIS	9	1.2	Second Quartile			
15.5	BUTLER	8	1.0	36.0	JOHNSON	3	0.4
15.5	DUNKLIN	8	1.0	36.0	LAWRENCE	3	0.4
15.5	JEFFERSON	8	1.0	36.0	LINCOLN	3	0.4
15.5	RANDOLPH	8	1.0	36.0	MARION	3	0.4
18.5	CASS	7	0.9	36.0	NODAWAY	3	0.4
18.5	ST. FRANCOIS	7	0.9	36.0	PEMISCOT	3	0.4
21.0	BARRY	6	0.8				

RANK	COUNTY	FREQUENCY	PERCENT	RANK	COUNTY	FREQUENCY	PERCENT
36.0	STE. GENEVIEVE	3	0.4	67.0	RIPLEY	1	0.1
36.0	SALINE	3	0.4	67.0	ST. CLAIR	1	0.1
36.0	WEBSTER	3	0.4	67.0	SCOTLAND	1	0.1
47.0	AUDRAIN	2	0.3	67.0	VERNON	1	0.1
47.0	BATES	2	0.3	Third Quartile			
47.0	CALLAWAY	2	0.3	Fourth Quartile			
47.0	CEDAR	2	0.3	98.0	ATCHISON	0	0.0
47.0	COOPER	2	0.3	98.0	BOLLINGER	0	0.0
47.0	IRON	2	0.3	98.0	CARROLL	0	0.0
47.0	LACLEDE	2	0.3	98.0	CARTER	0	0.0
47.0	MADISON	2	0.3	98.0	CLARK	0	0.0
47.0	MISSISSIPPI	2	0.3	98.0	CLINTON	0	0.0
47.0	MORGAN	2	0.3	98.0	DADE	0	0.0
47.0	TEXAS	2	0.3	98.0	DALLAS	0	0.0
47.0	WARREN	2	0.3	98.0	DE KALB	0	0.0
47.0	WASHINGTON	2	0.3	98.0	DENT	0	0.0
Second Quartile				98.0	DOUGLAS	0	0.0
Third Quartile				98.0	GENTRY	0	0.0
67.0	ANDREW	1	0.1	98.0	HICKORY	0	0.0
67.0	BARTON	1	0.1	98.0	HOLT	0	0.0
67.0	BENTON	1	0.1	98.0	KNOX	0	0.0
67.0	CALDWELL	1	0.1	98.0	LEWIS	0	0.0
67.0	CAMDEN	1	0.1	98.0	LINN	0	0.0
67.0	CHARITON	1	0.1	98.0	LIVINGSTON	0	0.0
67.0	CRAWFORD	1	0.1	98.0	MARIES	0	0.0
67.0	DAVIESS	1	0.1	98.0	MERCER	0	0.0
67.0	GASCONADE	1	0.1	98.0	MONTGOMERY	0	0.0
67.0	GRUNDY	1	0.1	98.0	OREGON	0	0.0
67.0	HARRISON	1	0.1	98.0	OZARK	0	0.0
67.0	HENRY	1	0.1	98.0	PUTNAM	0	0.0
67.0	HOWARD	1	0.1	98.0	RAY	0	0.0
67.0	MCDONALD	1	0.1	98.0	REYNOLDS	0	0.0
67.0	MACON	1	0.1	98.0	SCHUYLER	0	0.0
67.0	MILLER	1	0.1	98.0	SHANNON	0	0.0
67.0	MONITEAU	1	0.1	98.0	SHELBY	0	0.0
67.0	MONROE	1	0.1	98.0	STONE	0	0.0
67.0	OSAGE	1	0.1	98.0	SULLIVAN	0	0.0
67.0	PERRY	1	0.1	98.0	TANEY	0	0.0
67.0	POLK	1	0.1	98.0	WAYNE	0	0.0
67.0	PULASKI	1	0.1	98.0	WORTH	0	0.0
67.0	RALLS	1	0.1	98.0	WRIGHT	0	0.0

TABLE 3.8.13

## 2003 BICYCLE INVOLVED CRASHES

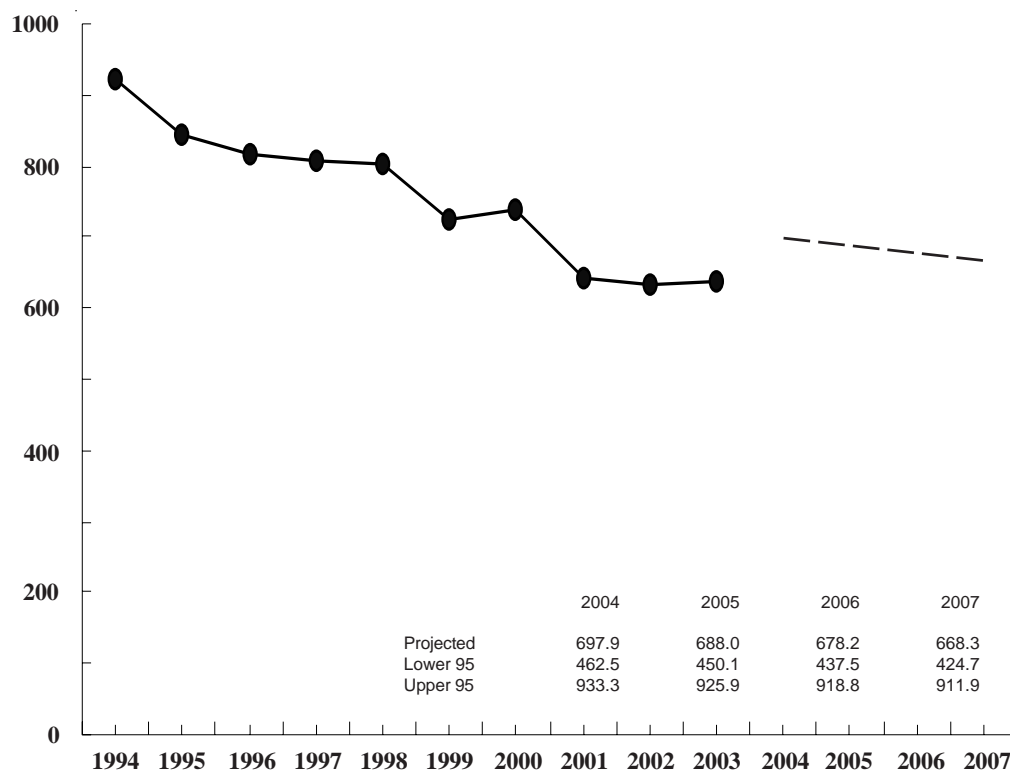
### CITY LISTING

RANK	CITY	FREQUENCY	PERCENT <sup>1</sup>
1.0	ST. LOUIS	110	16.0
2.0	KANSAS CITY	70	10.2
3.0	SPRINGFIELD	42	6.1
4.0	COLUMBIA	31	4.5
5.5	INDEPENDENCE	22	3.2
5.5	JOPLIN	22	3.2
7.0	ST. JOSEPH	19	2.8
8.0	UNIVERSITY CITY	14	2.0
9.0	CAPE GIRARDEAU	12	1.7
10.0	FLORISSANT	10	1.5
12.0	BLUE SPRINGS	9	1.3
12.0	SEDALIA	9	1.3
12.0	WEBSTER GROVES	9	1.3
14.5	FERGUSON	8	1.2
14.5	LEE'S SUMMIT	8	1.2
19.5	GRANDVIEW	7	1.0
19.5	JEFFERSON CITY	7	1.0
19.5	KENNETT	7	1.0
19.5	KIRKWOOD	7	1.0
19.5	MOBERLY	7	1.0
19.5	POPLAR BLUFF	7	1.0
19.5	ST. PETERS	7	1.0
19.5	WASHINGTON	7	1.0
24.0	O'FALLON	6	0.9
26.0	MONETT	5	0.7
26.0	ST. CHARLES	5	0.7
26.0	WEST PLAINS	5	0.7
32.0	CHESTERFIELD	4	0.6
32.0	CLAYTON	4	0.6
32.0	FARMINGTON	4	0.6
32.0	JENNINGS	4	0.6
32.0	KIRKSVILLE	4	0.6
32.0	MAPLEWOOD	4	0.6
32.0	ROLLA	4	0.6
32.0	ST. ANN	4	0.6
32.0	SIKESTON	4	0.6

<sup>1</sup>Percentage is based on bicycle involved crashes which occurred in Missouri municipalities with populations of 1,000 or more. Only those municipalities comprising 0.5% or more of these crashes are listed.

**TABLE 3.8.14**

# **MISSOURI FATAL AND PERSONAL INJURY BICYCLE INVOLVED CRASHES ANNUAL TIME SERIES**



**FIGURE 3.8.4**

### 3.9 PEDESTRIAN INVOLVEMENT

***This section presents a series of data displays which describe pedestrian involvement in Missouri's traffic crash experience. Pedestrian crashes are defined as any crash in which one or more pedestrians were directly involved in the incident. The pedestrian may have been involved in the first harmful event or in a secondary event associated with the traffic crash. In either case, they would be included in this analysis. Data displays also are provided which identify characteristics of the pedestrian as well as the vehicle and driver that actually struck the pedestrian.***

#### 2003 SUMMARY ANALYSIS

- Of all 2003 Missouri traffic crashes, 0.9% involved a pedestrian. Of all fatal traffic crashes, 7.3% involved a pedestrian. A total of 81 persons were killed and 1,560 were injured in traffic crashes involving a pedestrian. In these traffic crashes, 80 of the 81 persons killed were pedestrians and 1,461 of the 1,560 persons injured were pedestrians.
- There was a 6.5% decrease in the number of pedestrian related traffic crashes when comparing 2003 with 2002. When comparing fatal pedestrian related crashes over the same time period there was an 11.1% decrease between 2002 and 2003.
- In 2003, one person was killed or injured in pedestrian related traffic crashes every 5.3 hours in the State of Missouri.
- Of all 2003 pedestrian traffic crashes, 78.0% occurred in an urban area of the State and 22.0% occurred in a rural area. Of fatal pedestrian crashes, 46.2% occurred in a rural area.
- Of pedestrians in the traffic crashes, 60.8% were male and 39.2% were female. The average age of the pedestrian was 30.5 years. For those pedestrians killed the average age was 42.3 years.
- Of pedestrians 14 years and under in 2003 traffic crashes, 20.0% were crossing the street from behind a parked vehicle and 11.7% were playing in the road. Of pedestrians 15 through 64 years of age, 10.4% were standing / lying / sitting in the road and 9.8% were crossing the street from behind a parked vehicle. Of pedestrians 65 years and older, 12.6% were crossing the road within a crosswalk and 9.7% were crossing the street from behind a parked vehicle.
- Of the drivers who struck pedestrians in 2003 traffic crashes, 59.3% were male and 40.7% were female. The average age of the driver was 38.3 years. Of the drivers who struck pedestrians, 63.4% were driving an automobile and 12.7% were driving a pickup truck.

## 2003 MISSOURI TRAFFIC CRASHES

### PEDESTRIAN INVOLVEMENT

	FATAL	%	PERSONAL INJURY	%	PROPERTY DAMAGE	%	TOTAL	%	TOTAL NUMBER <sup>1</sup> KILLED INJURED	PEDESTRIANS <sup>2</sup> KILLED INJURED
PEDESTRIAN INVOLVED	80	7.3	1,395	3.0	90	0.1	1,565	0.9	81	1,560
NO PEDESTRIAN INVOLVED	1,015	92.7	44,571	97.0	135,473	99.9	181,059	99.1	1,151	67,561
<b>TOTAL</b>	1,095	100.0	45,966	100.0	135,563	100.0	182,624	100.0	1,232	69,121
									80	1,461

<sup>1</sup>This statistic indicates the total number of persons killed and injured in a crash where one or more pedestrians were involved.

<sup>2</sup>This statistic indicates the number of pedestrians killed and injured.

**TABLE 3.9.1**



### 2002 and 2003 PEDESTRIAN INVOLVED CRASH ANALYSIS

	2002	2003	RATE OF CHANGE
FATAL	90	80	- 11.1
PERSONAL INJURY	1,484	1,395	- 6.0
PROPERTY DAMAGE	99	90	- 9.1
TOTAL	1,673	1,565	- 6.5

**TABLE 3.9.2**

### 2003 PEDESTRIAN INVOLVED CRASHES

#### AREA CLASSIFICATION BY CRASH SEVERITY

	FATAL	%	PERSONAL INJURY	%	PROPERTY DAMAGE	%	TOTAL	%
URBAN	43	53.8	1,102	79.0	75	83.3	1,220	78.0
RURAL	37	46.2	293	21.0	15	16.7	345	22.0
<b>TOTAL</b>	80	100.0	1,395	100.0	90	100.0	1,565	100.0

**TABLE 3.9.3**

### 2003 PEDESTRIAN INVOLVED CRASHES

#### ROAD CURVATURE BY CRASH SEVERITY

	FATAL	%	PERSONAL INJURY	%	PROPERTY DAMAGE	%	TOTAL	%
STRAIGHT	70	88.6	1,317	95.6	87	98.9	1,474	95.5
CURVE	9	11.4	60	4.4	1	1.1	70	4.5
UNKNOWN	1	-	18	-	2	-	21	-
<b>TOTAL</b>	80	100.0	1,395	100.0	90	100.0	1,565	100.0

**TABLE 3.9.4**

**2003 PEDESTRIAN INVOLVED CRASHES**

**ROAD INCLINE BY CRASH SEVERITY**

	<b>FATAL</b>	<b>%</b>	<b>PERSONAL INJURY</b>	<b>%</b>	<b>PROPERTY DAMAGE</b>	<b>%</b>	<b>TOTAL</b>	<b>%</b>
LEVEL	55	69.6	1,087	80.2	71	80.7	1,213	79.7
HILL	22	27.9	230	17.0	15	17.0	267	17.5
CREST	2	2.5	38	2.8	2	2.3	42	2.8
UNKNOWN	1	-	40	-	2	-	43	-
<b>TOTAL</b>	<b>80</b>	<b>100.0</b>	<b>1,395</b>	<b>100.0</b>	<b>90</b>	<b>100.0</b>	<b>1,565</b>	<b>100.0</b>

**TABLE 3.9.5**

**2003 PEDESTRIAN INVOLVED CRASHES**

**ROAD CONDITIONS BY CRASH SEVERITY**

	<b>FATAL</b>	<b>%</b>	<b>PERSONAL INJURY</b>	<b>%</b>	<b>PROPERTY DAMAGE</b>	<b>%</b>	<b>TOTAL</b>	<b>%</b>
DRY	62	78.5	1,169	84.5	78	86.7	1,309	84.3
WET	15	19.0	188	13.6	9	10.0	212	13.7
SNOW	0	0.0	16	1.2	2	2.2	18	1.2
ICE	1	1.3	6	0.4	1	1.1	8	0.5
SLUSH	0	0.0	4	0.3	0	0.0	4	0.3
MUD	0	0.0	0	0.0	0	0.0	0	0.0
STANDING WATER	1	1.3	0	0.0	0	0.0	1	0.1
MOVING WATER	0	0.0	0	0.0	0	0.0	0	0.0
UNKNOWN	1	-	12	-	0	-	13	-
<b>TOTAL</b>	<b>80</b>	<b>100.0</b>	<b>1,395</b>	<b>100.0</b>	<b>90</b>	<b>100.0</b>	<b>1,565</b>	<b>100.0</b>

**TABLE 3.9.6**

## 2003 PEDESTRIAN INVOLVED CRASHES

### HIGHWAY CLASSIFICATION BY CRASH SEVERITY

	FATAL	%	PERSONAL INJURY	%	PROPERTY DAMAGE	%	TOTAL	%
INTERSTATE	10	12.5	43	3.1	2	2.2	55	3.5
U.S. HIGHWAY	8	10.0	30	2.2	1	1.1	39	2.5
STATE NUMBERED	13	16.3	82	5.9	4	4.4	99	6.3
SINGLE STATE LETTERED	5	6.3	40	2.9	5	5.6	50	3.2
DOUBLE STATE LETTERED	2	2.5	12	0.9	2	2.2	16	1.0
OUTER ROAD	1	1.3	6	0.4	1	1.1	8	0.5
COUNTY ROAD	8	10.0	104	7.5	4	4.4	116	7.4
CITY STREET	29	36.3	952	68.2	61	67.8	1,042	66.6
INTERSTATE LOOP	0	0.0	3	0.2	0	0.0	3	0.2
OTHER <sup>1</sup>	4	5.0	123	8.8	10	11.1	137	8.8
<b>TOTAL</b>	80	100.0	1,395	100.0	90	100.0	1,565	100.0

<sup>1</sup>"Other" includes types of roads that are maintained by the State as well as by local jurisdictions.

**TABLE 3.9.7**

# 2003 PEDESTRIAN INVOLVED CRASHES

## HIGHWAY CLASSIFICATION BY AREA CLASSIFICATION AND CRASH SEVERITY

	URBAN								RURAL							
	FATAL	%	PERSONAL INJURY	%	PROPERTY DAMAGE	%	TOTAL	%	FATAL	%	PERSONAL INJURY	%	PROPERTY DAMAGE	%	TOTAL	%
INTERSTATE	6	14.0	28	2.5	2	2.7	36	3.0	4	10.8	15	5.1	0	0.0	19	5.5
U.S. HIGHWAY	2	4.7	21	1.9	1	1.3	24	2.0	6	16.2	9	3.1	0	0.0	15	4.4
STATE NUMBERED	3	7.0	43	3.9	2	2.7	48	3.9	10	27.0	39	13.3	2	13.3	51	14.8
SINGLE STATE LETTERED	0	0.0	8	0.7	2	2.7	10	0.8	5	13.5	32	10.9	3	20.0	40	11.6
DOUBLE STATE LETTERED	0	0.0	7	0.6	0	0.0	7	0.6	2	5.4	5	1.7	2	13.3	9	2.6
OUTER ROAD	0	0.0	4	0.4	0	0.0	4	0.3	1	2.7	2	0.7	1	6.7	4	1.2
COUNTY ROAD	2	4.7	19	1.7	1	1.3	22	1.8	6	16.2	85	29.0	3	20.0	94	27.3
CITY STREET	27	62.8	870	79.0	58	77.3	955	78.3	2	5.4	82	28.0	3	20.0	87	25.2
INTERSTATE LOOP	0	0.0	2	0.2	0	0.0	2	0.2	0	0.0	1	0.3	0	0.0	1	0.3
OTHER¹	3	7.0	100	9.1	9	12.0	112	9.2	1	2.7	23	7.9	1	6.7	25	7.3
TOTAL	43	100.0	1,102	100.0	75	100.0	1,220	100.0	37	100.0	293	100.0	15	100.0	345	100.0

<sup>1</sup> "Other" includes types of roads that are maintained by the State as well as by local jurisdictions.

**TABLE 3.9.8**

**2003 MISSOURI PEDESTRIAN INVOLVED CRASHES  
MONTH OF YEAR**

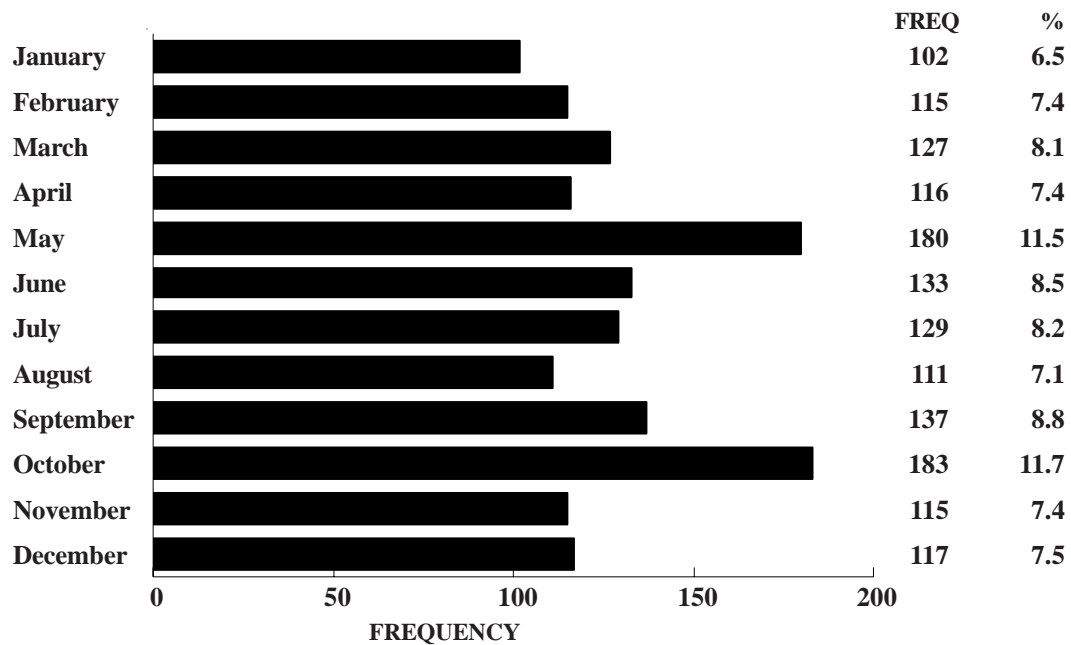


FIGURE 3.9.1

**2003 MISSOURI PEDESTRIAN INVOLVED CRASHES  
DAY OF WEEK**

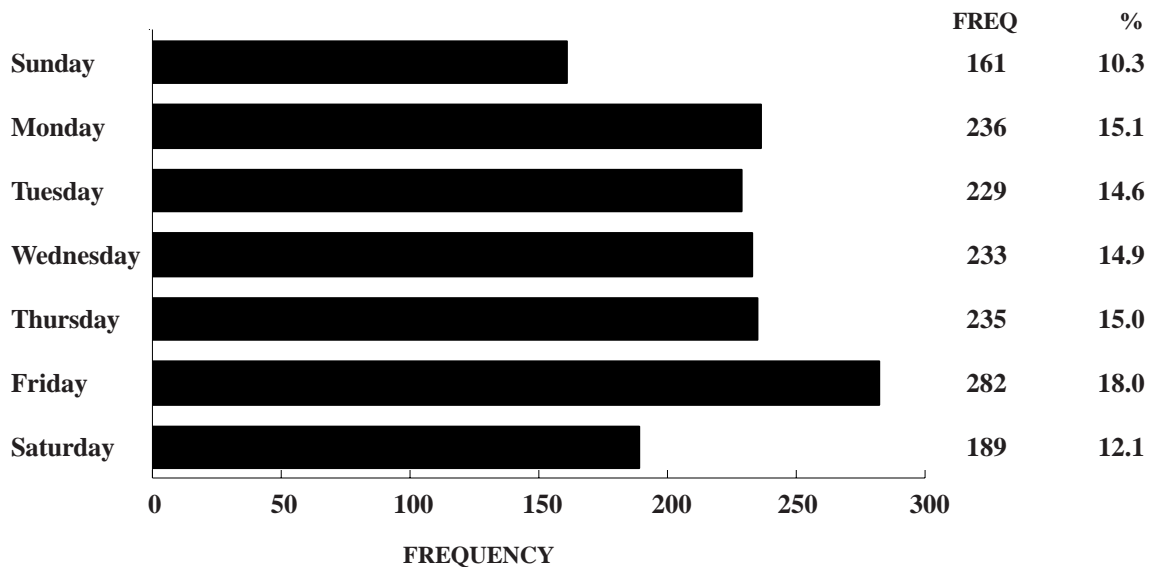
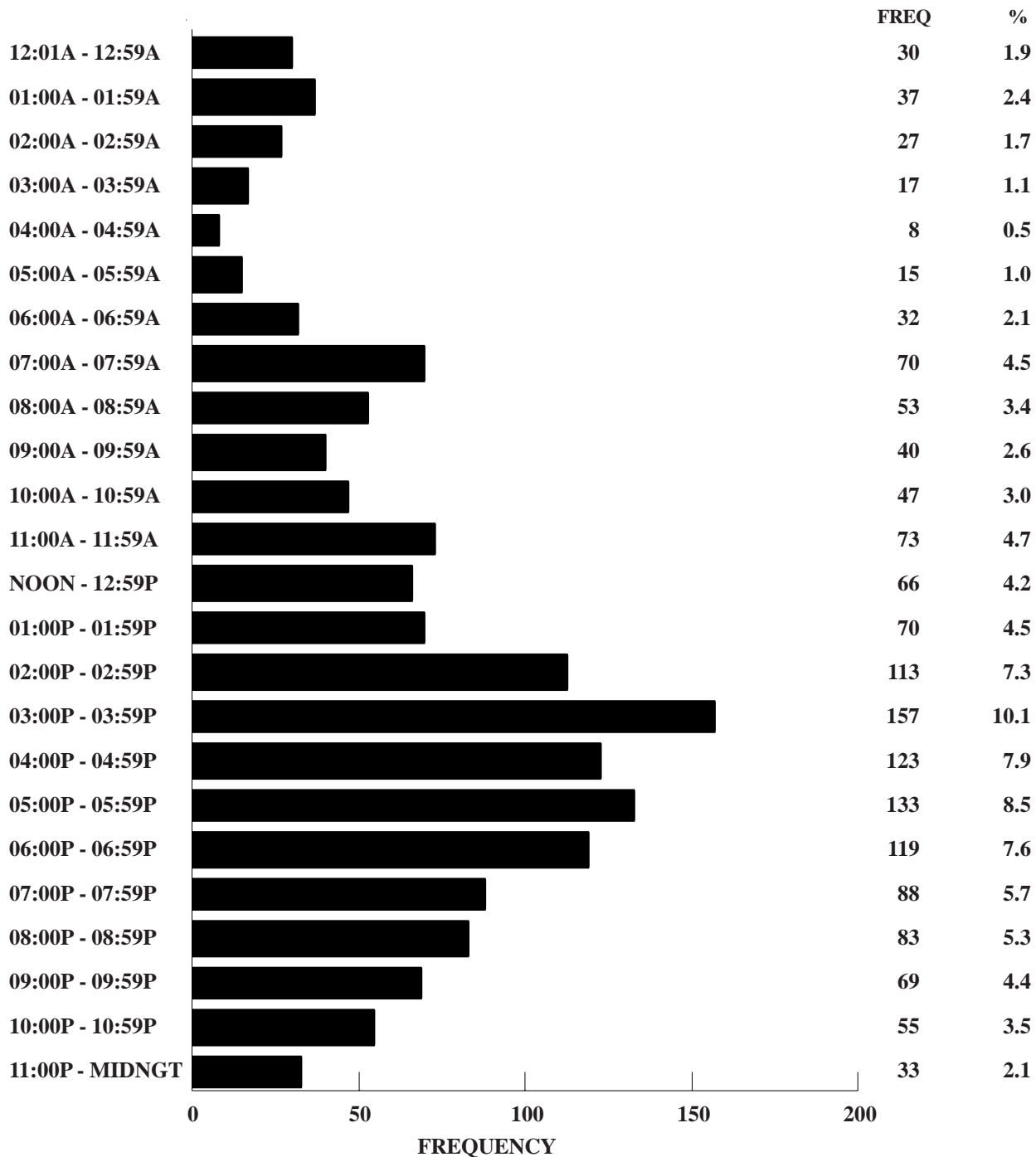


FIGURE 3.9.2

# **2003 MISSOURI PEDESTRIAN INVOLVED CRASHES HOUR OF DAY**



Unknown Data Not Included

**FIGURE 3.9.3**

## 2003 MISSOURI PEDESTRIAN CRASHES

### TYPE OF CIRCUMSTANCE INVOLVED BY CRASH SEVERITY AND PERSON CLASSIFICATION<sup>1</sup>

FATAL PEDESTRIAN CRASHES = 80				TOTAL PEDESTRIAN CRASHES = 1,565		
	PEDESTRIAN	OTHER DRIVER/ VEHICLE	TOTAL FATAL	PEDESTRIAN	OTHER DRIVER/ VEHICLE	TOTAL CRASHES
VEHICLE DEFECTS	0.0	5.0	5.0	0.0	1.9	1.9
TRAFFIC CONTROL INOPERATIVE / MISSING	0.0	0.0	0.0	0.0	0.1	0.1
IMPROPERLY STOPPED ON ROADWAY	0.0	5.0	5.0	0.0	1.0	1.0
EXCEEDING SPEED LIMIT / TOO FAST FOR CONDITIONS	0.0	16.3	16.3	0.0	7.0	7.0
IMPROPER PASSING	0.0	0.0	0.0	0.0	0.5	0.5
VIOLATION OF STOP SIGN	0.0	1.3	1.3	0.0	2.0	2.0
WRONG SIDE NOT PASSING	0.0	2.5	2.5	0.0	0.7	0.7
FOLLOWING TOO CLOSE	0.0	0.0	0.0	0.0	0.5	0.5
IMPROPER SIGNAL	0.0	0.0	0.0	0.0	0.1	0.1
IMPROPER BACKING	0.0	0.0	0.0	0.0	1.9	1.9
IMPROPER TURN	0.0	0.0	0.0	0.0	0.8	0.8
IMPROPER LANE USAGE / CHANGE	0.0	3.8	3.8	0.0	2.0	2.0
WRONG WAY ONE-WAY STREET	0.0	0.0	0.0	0.0	0.1	0.1
IMPROPER START FROM PARK	0.0	0.0	0.0	0.0	0.8	0.8
IMPROPERLY PARKED	0.0	1.3	1.3	0.0	0.9	0.9
FAILED TO YIELD	22.5	5.0	26.3	15.1	12.7	26.9
DRINKING	16.3	7.5	20.0	5.2	2.8	7.7
DRUGS	2.5	1.3	3.8	0.4	0.6	1.0
PHYSICAL IMPAIRMENT	6.3	1.3	7.5	1.0	0.5	1.5
INATTENTION	37.5	22.5	51.3	24.7	27.5	45.4

<sup>1</sup>This table identifies the percentage of pedestrian crashes having a specific type of circumstance which contributed to the cause of the crash. This table further defines the percentage of crashes where the contributing circumstance was associated with the pedestrian as well as those attributed to other drivers and vehicles in the crash. For instance, when examining drinking involvement in 2003 Missouri fatal pedestrian crashes, it was found that a pedestrian was drinking in 16.3% of the crashes. In 7.5% of the crashes a driver was drinking. In 20.0% of the crashes either a pedestrian, a driver, or both were drinking.

**TABLE 3.9.9**

# PEDESTRIANS IN 2003 MISSOURI CRASHES

## SEX OF PEDESTRIAN BY PERSONAL INJURY SEVERITY

	KILLED	%	INJURED	%	NOT INJURED / INJURY UNK.	%	TOTAL	%
MALE	48	60.0	879	60.2	75	68.8	1,002	60.8
FEMALE	32	40.0	581	39.8	34	31.2	647	39.2
UNKNOWN	0	-	1	-	0	-	1	-
<b>TOTAL</b>	80	100.0	1,461	100.0	109	100.0	1,650	100.0

**TABLE 3.9.10**

# PEDESTRIANS IN 2003 MISSOURI CRASHES

## AGE OF PEDESTRIAN BY PERSONAL INJURY SEVERITY

	KILLED	%	INJURED	%	NOT INJURED / INJURY UNK.	%	TOTAL	%
<b>AVERAGE AGE OF PEDESTRIAN</b>	42.3	-	29.7	-	32.9	-	30.5	-
4 YEARS AND UNDER	3	3.8	70	5.0	4	4.4	77	4.9
5 - 9 YEARS	5	6.3	146	10.4	4	4.4	155	9.9
10 - 14 YEARS	3	3.8	171	12.2	5	5.6	179	11.4
15 - 19 YEARS	5	6.3	188	13.4	15	16.7	208	13.2
20 - 24 YEARS	7	8.8	120	8.6	7	7.8	134	8.5
25 - 29 YEARS	6	7.5	98	7.0	5	5.6	109	6.9
30 - 34 YEARS	3	3.8	95	6.8	7	7.8	105	6.7
35 - 39 YEARS	6	7.5	77	5.5	6	6.7	89	5.7
40 - 44 YEARS	6	7.5	99	7.1	12	13.3	117	7.4
45 - 49 YEARS	6	7.5	85	6.1	8	8.9	99	6.3
50 - 54 YEARS	6	7.5	72	5.1	7	7.8	85	5.4
55 - 59 YEARS	5	6.3	59	4.2	6	6.7	70	4.5
60 - 64 YEARS	3	3.8	33	2.4	2	2.2	38	2.4
65 YEARS AND OVER	16	20.0	91	6.5	2	2.2	109	6.9
UNKNOWN	0	-	57	-	19	-	76	-
<b>TOTAL</b>	80	100.0	1,461	100.0	109	100.0	1,650	100.0

**TABLE 3.9.11**



**PEDESTRIANS IN 2003 MISSOURI CRASHES**

**PEDESTRIAN ACTIONS BY AGE GROUP**

	<b>00 - 14 YEARS</b>	<b>%</b>	<b>15 - 64 YEARS</b>	<b>%</b>	<b>65 YEARS AND OVER</b>	<b>%</b>	<b>UN- KNOWN</b>	<b>TOTAL</b>	<b>%</b>
CROSSING - WITH SIGNAL	10	2.6	47	4.9	11	10.7	1	69	4.6
CROSSING - AGAINST SIGNAL	14	3.6	51	5.3	3	2.9	6	74	4.9
CROSSING - NO SIGNAL	161	41.7	259	26.9	35	34.0	19	474	31.4
CROSSING - DIAGONALLY	17	4.4	49	5.1	3	2.9	2	71	4.7
CROSSING - WITHIN CROSSWALK	8	2.1	49	5.1	13	12.6	5	75	5.0
CROSSING - WITHIN MARKED CROSSWALK	7	1.8	44	4.6	6	5.8	2	59	3.9
FROM BEHIND PARKED VEHICLE	77	20.0	94	9.8	10	9.7	6	187	12.4
WALKING WITH TRAFFIC	10	2.6	50	5.2	1	1.0	4	65	4.3
WALKING AGAINST TRAFFIC	8	2.1	56	5.8	4	3.9	1	69	4.6
GETTING ON / OFF VEHICLE	7	1.8	31	3.2	2	1.9	1	41	2.7
STANDING / LYING / SITTING IN ROAD	5	1.3	100	10.4	4	3.9	4	113	7.5
PUSHING / WORKING ON VEHICLE	1	0.3	22	2.3	2	1.9	0	25	1.7
OTHER WORK IN ROAD	1	0.3	28	2.9	2	1.9	1	32	2.1
PLAYING IN ROAD	45	11.7	13	1.4	0	0.0	3	61	4.0
NOT IN ROAD	15	3.9	69	7.2	7	6.8	4	95	6.3
UNKNOWN	25	-	92	-	6	-	17	140	-
<b>TOTAL</b>	411	100.0	1,054	100.0	109	100.0	76	1,650	100.0

**TABLE 3.9.12**

## DRIVERS OF VEHICLES STRIKING PEDESTRIANS IN 2003 MISSOURI CRASHES

### SEX OF DRIVER BY CRASH SEVERITY

	FATAL	%	PERSONAL INJURY	%	PROPERTY DAMAGE	%	TOTAL	%
MALE	49	79.0	631	58.5	35	53.0	715	59.3
FEMALE	13	21.0	447	41.5	31	47.0	491	40.7
UNKNOWN	13	-	257	-	18	-	288	-
<b>TOTAL</b>	<b>75</b>	<b>100.0</b>	<b>1,335</b>	<b>100.0</b>	<b>84</b>	<b>100.0</b>	<b>1,494</b>	<b>100.0</b>

TABLE 3.9.13

## DRIVERS OF VEHICLES STRIKING PEDESTRIANS IN 2003 MISSOURI CRASHES

### AGE OF DRIVER BY CRASH SEVERITY

	FATAL	%	PERSONAL INJURY	%	PROPERTY DAMAGE	%	TOTAL	%
<b>AVERAGE AGE OF DRIVER</b>	<b>35.9</b>	<b>-</b>	<b>38.4</b>	<b>-</b>	<b>39.9</b>	<b>-</b>	<b>38.3</b>	<b>-</b>
14 YEARS AND UNDER	1	1.6	3	0.3	0	0.0	4	0.3
15 - 20 YEARS	14	22.6	175	16.7	11	17.7	200	17.0
21 - 25 YEARS	10	16.1	155	14.8	4	6.5	169	14.4
26 - 30 YEARS	3	4.8	87	8.3	3	4.8	93	7.9
31 - 35 YEARS	6	9.7	91	8.7	7	11.3	104	8.9
36 - 40 YEARS	5	8.1	104	9.9	10	16.1	119	10.1
41 - 45 YEARS	10	16.1	99	9.4	6	9.7	115	9.8
46 - 50 YEARS	2	3.2	84	8.0	3	4.8	89	7.6
51 - 55 YEARS	2	3.2	69	6.6	6	9.7	77	6.6
56 - 60 YEARS	2	3.2	56	5.3	6	9.7	64	5.5
61 - 65 YEARS	1	1.6	41	3.9	2	3.2	44	3.7
66 YEARS AND OVER	6	9.7	87	8.3	4	6.5	97	8.3
UNKNOWN	13	-	284	-	22	-	319	-
<b>TOTAL</b>	<b>75</b>	<b>100.0</b>	<b>1,335</b>	<b>100.0</b>	<b>84</b>	<b>100.0</b>	<b>1,494</b>	<b>100.0</b>

TABLE 3.9.14

**DRIVERS OF VEHICLES STRIKING PEDESTRIANS IN 2003 MISSOURI CRASHES**

**TYPE OF VISION OBSTRUCTION BY CRASH SEVERITY**

	<b>FATAL</b>	<b>%</b>	<b>PERSONAL INJURY</b>	<b>%</b>	<b>PROPERTY DAMAGE</b>	<b>%</b>	<b>TOTAL</b>	<b>%</b>
WINDSHIELD OBSCURED	2	2.8	8	0.6	0	0.0	10	0.7
LOAD ON VEHICLE	1	1.4	2	0.2	0	0.0	3	0.2
TREES / BRUSH	0	0.0	12	0.9	1	1.2	13	0.9
BUILDING	0	0.0	2	0.2	0	0.0	2	0.1
EMBANKMENT	0	0.0	1	0.1	0	0.0	1	0.1
SIGNBOARD	0	0.0	0	0.0	0	0.0	0	0.0
HILLCREST	1	1.4	9	0.7	1	1.2	11	0.8
PARKED CARS	2	2.8	112	8.8	3	3.6	117	8.2
MOVING CARS	2	2.8	48	3.8	3	3.6	53	3.7
GLARE	1	1.4	28	2.2	2	2.4	31	2.2
OTHER	10	14.1	76	6.0	2	2.4	88	6.2
NOT OBSCURED	52	73.2	980	76.7	71	85.5	1,103	77.0
UNKNOWN	4	-	57	-	1	-	62	-
<b>TOTAL</b>	<b>75</b>	<b>100.0</b>	<b>1,335</b>	<b>100.0</b>	<b>84</b>	<b>100.0</b>	<b>1,494</b>	<b>100.0</b>

**TABLE 3.9.15**

# DRIVERS OF VEHICLES STRIKING PEDESTRIANS IN 2003 MISSOURI CRASHES

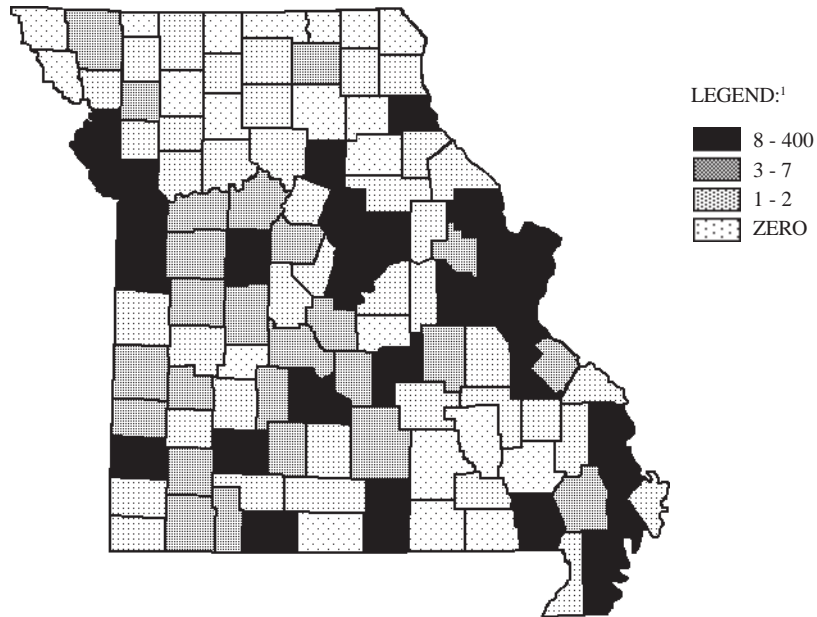
## TYPE OF VEHICLE DRIVEN BY CRASH SEVERITY

	FATAL	%	PERSONAL INJURY	%	PROPERTY DAMAGE	%	TOTAL	%
AUTOMOBILE	30	42.3	846	64.3	54	65.9	930	63.4
SPORT UTILITY VEHICLE	5	7.0	154	11.7	9	11.0	168	11.4
LIMOUSINE	0	0.0	0	0.0	0	0.0	0	0.0
VAN	7	9.9	109	8.3	7	8.5	123	8.4
BUS	0	0.0	11	0.8	1	1.2	12	0.8
SCHOOL BUS	1	1.4	5	0.4	0	0.0	6	0.4
MOTORCYCLE	0	0.0	1	0.1	0	0.0	1	0.1
MOPED	0	0.0	1	0.1	0	0.0	1	0.1
BICYCLE	0	0.0	0	0.0	0	0.0	0	0.0
MOTOR HOME /CAMPER	0	0.0	0	0.0	0	0.0	0	0.0
FARM EQUIPMENT	0	0.0	3	0.2	0	0.0	3	0.2
CONSTRUCTION EQUIPMENT	0	0.0	0	0.0	0	0.0	0	0.0
OTHER TRANSPORT DEVICE	0	0.0	0	0.0	0	0.0	0	0.0
PICKUP TRUCK	22	31.0	155	11.8	10	12.2	187	12.7
OTHER TRUCKS	6	8.5	29	2.2	1	1.2	36	2.5
ALL TERRAIN VEHICLE	0	0.0	1	0.1	0	0.0	1	0.1
UNKNOWN	4	-	20	-	2	-	26	-
<b>TOTAL</b>	<b>75</b>	<b>100.0</b>	<b>1,335</b>	<b>100.0</b>	<b>84</b>	<b>100.0</b>	<b>1,494</b>	<b>100.0</b>

**TABLE 3.9.16**

## 2003 PEDESTRIAN INVOLVED CRASHES

### COUNTY QUARTILE ANALYSIS



<sup>1</sup>LEGEND CATEGORIES ARE BASED ON QUARTILES OF COUNTIES.

RANK	COUNTY	FREQUENCY	PERCENT	RANK	COUNTY	FREQUENCY	PERCENT
1.0	ST. LOUIS CITY	400	25.6	21.0	PHELPS	10	0.6
2.0	JACKSON	272	17.4	24.0	CALLAWAY	9	0.6
3.0	ST. LOUIS	261	16.7	24.0	LACLEDE	9	0.6
4.0	GREENE	63	4.0	24.0	ST. FRANCOIS	9	0.6
5.0	ST. CHARLES	49	3.1	27.5	HOWELL	8	0.5
6.0	BOONE	35	2.2	27.5	LINCOLN	8	0.5
7.0	CLAY	34	2.2	27.5	PEMISCOT	8	0.5
8.0	JEFFERSON	31	2.0	27.5	RANDOLPH	8	0.5
9.0	JASPER	26	1.7	First Quartile			
10.0	BUCHANAN	24	1.5	Second Quartile			
11.0	FRANKLIN	20	1.3	30.0	LAFAYETTE	7	0.4
12.0	BUTLER	16	1.0	33.0	ADAIR	5	0.3
13.5	CAPE GIRARDEAU	15	1.0	33.0	JOHNSON	5	0.3
13.5	PLATTE	15	1.0	33.0	PULASKI	5	0.3
15.5	PETTIS	13	0.8	33.0	SALINE	5	0.3
15.5	SCOTT	13	0.8	33.0	WARREN	5	0.3
18.0	COLE	11	0.7	39.0	CAMDEN	4	0.3
18.0	NEW MADRID	11	0.7	39.0	COOPER	4	0.3
18.0	TANEY	11	0.7	39.0	CRAWFORD	4	0.3
21.0	CASS	10	0.6	39.0	HENRY	4	0.3
21.0	MARION	10	0.6				

RANK	COUNTY	FREQUENCY	PERCENT	RANK	COUNTY	FREQUENCY	PERCENT
39.0	MILLER	4	0.3	84.5	CHARITON	1	0.1
39.0	NODAWAY	4	0.3	84.5	CLINTON	1	0.1
39.0	WEBSTER	4	0.3	84.5	DADE	1	0.1
48.5	BARRY	3	0.2	84.5	DOUGLAS	1	0.1
48.5	BARTON	3	0.2	84.5	GENTRY	1	0.1
48.5	BENTON	3	0.2	84.5	GRUNDY	1	0.1
48.5	CEDAR	3	0.2	84.5	HARRISON	1	0.1
48.5	DALLAS	3	0.2	84.5	KNOX	1	0.1
48.5	DE KALB	3	0.2	84.5	LEWIS	1	0.1
48.5	LAWRENCE	3	0.2	84.5	LINN	1	0.1
48.5	STE. GENEVIEVE	3	0.2	84.5	MONITEAU	1	0.1
48.5	STODDARD	3	0.2	84.5	MONTGOMERY	1	0.1
48.5	STONE	3	0.2	84.5	OSAGE	1	0.1
48.5	TEXAS	3	0.2	84.5	RALLS	1	0.1
48.5	VERNON	3	0.2	84.5	ST. CLAIR	1	0.1
Second Quartile				84.5	SULLIVAN	1	0.1
Third Quartile				84.5	WRIGHT	1	0.1
64.5	AUDRAIN	2	0.1	Third Quartile			
64.5	BOLLINGER	2	0.1	Fourth Quartile			
64.5	CALDWELL	2	0.1	105.0	ATCHISON	0	0.0
64.5	CARROLL	2	0.1	105.0	CLARK	0	0.0
64.5	CHRISTIAN	2	0.1	105.0	DAVIESS	0	0.0
64.5	DENT	2	0.1	105.0	HICKORY	0	0.0
64.5	DUNKLIN	2	0.1	105.0	HOLT	0	0.0
64.5	GASCONADE	2	0.1	105.0	LIVINGSTON	0	0.0
64.5	HOWARD	2	0.1	105.0	MACON	0	0.0
64.5	IRON	2	0.1	105.0	MARIES	0	0.0
64.5	MC DONALD	2	0.1	105.0	MERCER	0	0.0
64.5	MADISON	2	0.1	105.0	MONROE	0	0.0
64.5	MISSISSIPPI	2	0.1	105.0	OREGON	0	0.0
64.5	MORGAN	2	0.1	105.0	OZARK	0	0.0
64.5	NEWTON	2	0.1	105.0	PUTNAM	0	0.0
64.5	PERRY	2	0.1	105.0	REYNOLDS	0	0.0
64.5	PIKE	2	0.1	105.0	RIPLEY	0	0.0
64.5	POLK	2	0.1	105.0	SCHUYLER	0	0.0
64.5	RAY	2	0.1	105.0	SCOTLAND	0	0.0
64.5	WASHINGTON	2	0.1	105.0	SHANNON	0	0.0
84.5	ANDREW	1	0.1	105.0	SHELBY	0	0.0
84.5	BATES	1	0.1	105.0	WAYNE	0	0.0
84.5	CARTER	1	0.1	105.0	WORTH	0	0.0

TABLE 3.9.17

## 2003 PEDESTRIAN INVOLVED CRASHES

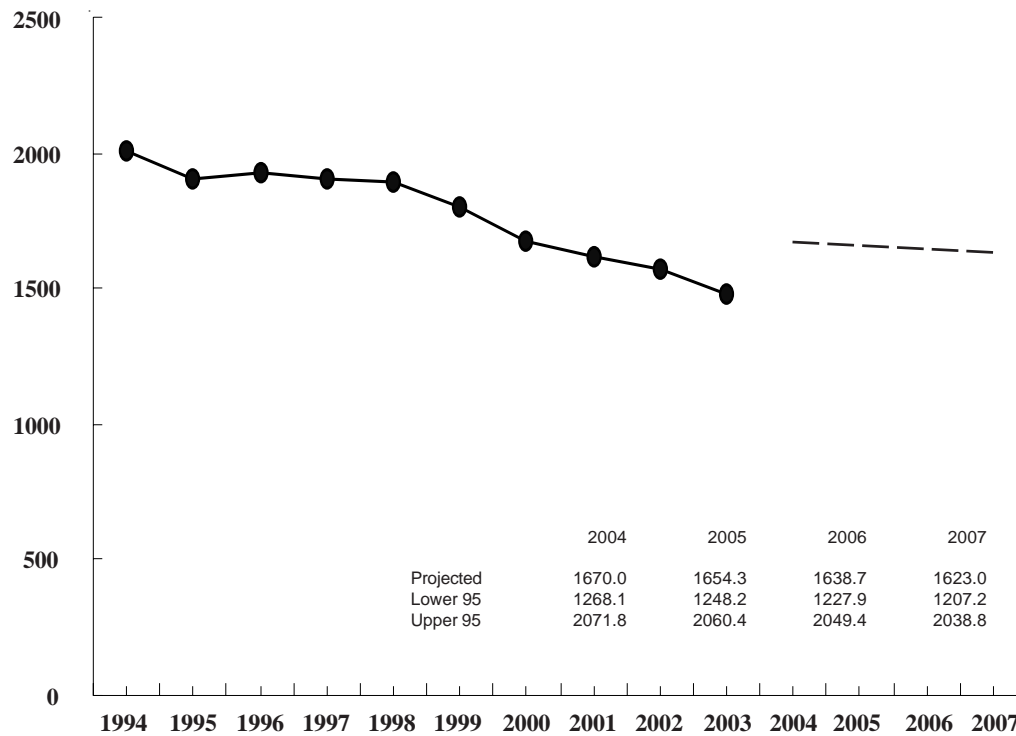
### CITY LISTING

RANK	CITY	FREQUENCY	PERCENT <sup>1</sup>
1.0	ST. LOUIS	400	30.1
2.0	KANSAS CITY	264	19.8
3.0	SPRINGFIELD	58	4.4
4.0	COLUMBIA	32	2.4
5.0	ST. JOSEPH	24	1.8
6.0	JOPLIN	19	1.4
7.0	FLORISSANT	18	1.4
8.0	INDEPENDENCE	16	1.2
9.0	ST. CHARLES	14	1.1
10.0	CAPE GIRARDEAU	13	1.0
11.5	CLAYTON	12	0.9
11.5	SIKESTON	12	0.9
14.5	BLUE SPRINGS	11	0.8
14.5	JENNINGS	11	0.8
14.5	KIRKWOOD	11	0.8
14.5	SEDALIA	11	0.8
18.5	HANNIBAL	10	0.8
18.5	OVERLAND	10	0.8
18.5	POPLAR BLUFF	10	0.8
18.5	UNIVERSITY CITY	10	0.8
21.5	ROLLA	9	0.7
21.5	ST. ANN	9	0.7
24.0	BRIDGETON	8	0.6
24.0	JEFFERSON CITY	8	0.6
24.0	WASHINGTON	8	0.6
27.0	CHESTERFIELD	7	0.5
27.0	LEBANON	7	0.5
27.0	ST. PETERS	7	0.5
30.5	BELTON	6	0.5
30.5	FERGUSON	6	0.5
30.5	LEE'S SUMMIT	6	0.5
30.5	O'FALLON	6	0.5

<sup>1</sup>Percentage is based on pedestrian involved crashes which occurred in Missouri municipalities with populations of 1,000 or more. Only those municipalities comprising 0.5% or more of these crashes are listed.

**TABLE 3.9.18**

# **MISSOURI FATAL AND PERSONAL INJURY PEDESTRIAN CRASHES ANNUAL TIME SERIES**



**FIGURE 3.9.4**



### 3.10 FIXED OBJECT INVOLVEMENT

***This section presents a series of data displays which describe fixed object involvement in Missouri's traffic crash experience. Fixed object traffic crashes are defined as any traffic crash whose first harmful event involves a motor vehicle striking a fixed object. Crashes where a motor vehicle struck a fixed object as a result of a secondary event in a crash are not included in this analysis. Data displays also are presented which identify characteristics of the vehicle and driver striking the fixed object in the first harmful event.***

#### 2003 SUMMARY ANALYSIS

- Of all Missouri traffic crashes, 17.4% involved a fixed object being struck as part of the first harmful event. Of all fatal traffic crashes, 37.7% involved a fixed object. A total of 449 persons were killed and 14,230 were injured in fixed object crashes.
- There was a decrease of 0.4% in the rate of change when comparing all 2003 fixed object related traffic crash activity with that in 2002. When examining fatal fixed object crashes, the rate of change increased by 3.3%.
- In 2003, one person was killed or injured in a fixed object crash every 35.8 minutes in the State of Missouri.
- Of all fixed object traffic crashes, 43.6% occurred in an urban area and 56.4% occurred in a rural area of the State. Of the fatal fixed object crashes, 80.9% occurred in a rural area.
- Of all fixed object crashes, 33.7% occurred on a curve and 41.3% occurred on a hill or crest of a hill.
- In 28.3% of the cases, an embankment, culvert, or ditch was the type of object struck. In 11.0% of the incidents, a tree was struck.
- Of the vehicles striking the fixed object, 57.8% were automobiles and 18.8% were pickup trucks.
- Of the drivers striking fixed objects, 64.2% were male and 35.8% were female. The average age of the driver was 32.9 years.
- Of the drivers striking fixed objects, 82.6% had a Missouri driver's license, 11.2% had an out-of-state driver's license, and 6.2% were unlicensed.

## 2003 MISSOURI TRAFFIC CRASHES

### FIXED OBJECT INVOLVEMENT

	FATAL	%	PERSONAL INJURY	%	PROPERTY DAMAGE	%	TOTAL	%	TOTAL NUMBER <sup>1</sup>			DRIVERS/PASSENGERS OF VEHICLES STRIKING FIXED OBJECTS <sup>2</sup>	
									KILLED	INJURED		KILLED	INJURED
FIXED OBJECT INVOLVED	413	37.7	10,729	23.3	20,670	15.3	31,812	17.4	449	14,230		441	13,976
NO FIXED OBJECT INVOLVED	682	62.3	35,237	76.7	114,893	84.7	150,812	82.6	783	54,891		-	-
<b>TOTAL</b>	1,095	100.0	45,966	100.0	135,563	100.0	182,624	100.0	1,232	69,121		441	13,976

<sup>1</sup>This statistic indicates the total number of persons killed and injured in a crash where a fixed object was struck during the first harmful event in a crash.

<sup>2</sup>This statistic indicates the number of drivers and passengers of vehicles striking fixed objects during the first harmful event in a crash who were killed and injured.

**TABLE 3.10.1**

### 2002 and 2003 FIXED OBJECT CRASH ANALYSIS

	2002	2003	RATE OF CHANGE
FATAL	400	413	+ 3.3
PERSONAL INJURY	10,996	10,729	- 2.4
PROPERTY DAMAGE	20,529	20,670	+ 0.7
TOTAL	31,925	31,812	- 0.4

**TABLE 3.10.2**

### 2003 FIXED OBJECT CRASHES

#### AREA CLASSIFICATION BY CRASH SEVERITY

	FATAL	%	PERSONAL INJURY	%	PROPERTY DAMAGE	%	TOTAL	%
URBAN	79	19.1	3,565	33.2	10,219	49.4	13,863	43.6
RURAL	334	80.9	7,164	66.8	10,451	50.6	17,949	56.4
<b>TOTAL</b>	<b>413</b>	<b>100.0</b>	<b>10,729</b>	<b>100.0</b>	<b>20,670</b>	<b>100.0</b>	<b>31,812</b>	<b>100.0</b>

**TABLE 3.10.3**

### 2003 FIXED OBJECT CRASHES

#### ROAD CURVATURE BY CRASH SEVERITY

	FATAL	%	PERSONAL INJURY	%	PROPERTY DAMAGE	%	TOTAL	%
STRAIGHT	210	50.9	6,581	61.7	13,811	69.0	20,602	66.3
CURVE	203	49.1	4,091	38.3	6,197	31.0	10,491	33.7
UNKNOWN	0	-	57	-	662	-	719	-
<b>TOTAL</b>	<b>413</b>	<b>100.0</b>	<b>10,729</b>	<b>100.0</b>	<b>20,670</b>	<b>100.0</b>	<b>31,812</b>	<b>100.0</b>

**TABLE 3.10.4**

**2003 FIXED OBJECT CRASHES**  
**ROAD INCLINE BY CRASH SEVERITY**

	<b>FATAL</b>	<b>%</b>	<b>PERSONAL INJURY</b>	<b>%</b>	<b>PROPERTY DAMAGE</b>	<b>%</b>	<b>TOTAL</b>	<b>%</b>
LEVEL	178	43.2	5,746	54.1	12,216	61.5	18,140	58.7
HILL	221	53.6	4,571	43.0	7,061	35.5	11,853	38.3
CREST	13	3.2	310	2.9	591	3.0	914	3.0
UNKNOWN	1	-	102	-	802	-	905	-
<b>TOTAL</b>	<b>413</b>	<b>100.0</b>	<b>10,729</b>	<b>100.0</b>	<b>20,670</b>	<b>100.0</b>	<b>31,812</b>	<b>100.0</b>

**TABLE 3.10.5**

**2003 FIXED OBJECT CRASHES**  
**ROAD CONDITIONS BY CRASH SEVERITY**

	<b>FATAL</b>	<b>%</b>	<b>PERSONAL INJURY</b>	<b>%</b>	<b>PROPERTY DAMAGE</b>	<b>%</b>	<b>TOTAL</b>	<b>%</b>
DRY	349	84.9	7,627	71.5	12,835	62.7	20,811	66.0
WET	54	13.1	2,149	20.1	4,812	23.5	7,015	22.2
SNOW	6	1.5	568	5.3	1,938	9.5	2,512	8.0
ICE	2	0.5	267	2.5	697	3.4	966	3.1
SLUSH	0	0.0	33	0.3	119	0.6	152	0.5
MUD	0	0.0	7	0.1	27	0.1	34	0.1
STANDING WATER	0	0.0	15	0.1	34	0.2	49	0.2
MOVING WATER	0	0.0	4	0.0	8	0.0	12	0.0
UNKNOWN	2	-	59	-	200	-	261	-
<b>TOTAL</b>	<b>413</b>	<b>100.0</b>	<b>10,729</b>	<b>100.0</b>	<b>20,670</b>	<b>100.0</b>	<b>31,812</b>	<b>100.0</b>

**TABLE 3.10.6**

## 2003 FIXED OBJECT CRASHES

### HIGHWAY CLASSIFICATION BY CRASH SEVERITY

	FATAL	%	PERSONAL INJURY	%	PROPERTY DAMAGE	%	TOTAL	%
INTERSTATE	60	14.5	1,617	15.1	3,201	15.5	4,878	15.3
U.S. HIGHWAY	51	12.4	1,137	10.6	1,804	8.7	2,992	9.4
STATE NUMBERED	84	20.3	1,749	16.3	2,500	12.1	4,333	13.6
SINGLE STATE LETTERED	72	17.4	1,534	14.3	1,583	7.7	3,189	10.0
DOUBLE STATE LETTERED	36	8.7	570	5.3	594	2.9	1,200	3.8
OUTER ROAD	5	1.2	67	0.6	124	0.6	196	0.6
COUNTY ROAD	57	13.8	1,861	17.4	2,941	14.2	4,859	15.3
CITY STREET	42	10.2	2,026	18.9	6,966	33.7	9,034	28.4
INTERSTATE LOOP	0	0.0	7	0.1	34	0.2	41	0.1
OTHER <sup>1</sup>	6	1.5	161	1.5	923	4.5	1,090	3.4
<b>TOTAL</b>	413	100.0	10,729	100.0	20,670	100.0	31,812	100.0

<sup>1</sup>"Other" includes types of roads that are maintained by the State as well as by local jurisdictions.

**TABLE 3.10.7**

## 2003 FIXED OBJECT CRASHES

### HIGHWAY CLASSIFICATION BY AREA CLASSIFICATION AND CRASH SEVERITY

	URBAN								RURAL							
	PERSONAL INJURY				PROPERTY DAMAGE				PERSONAL INJURY				PROPERTY DAMAGE			
	FATAL	%			FATAL	%			FATAL	%			FATAL	%		
INTERSTATE	22	27.9	903	25.3	1,774	17.4	2,699	19.5	38	11.4	714	10.0	1,427	13.7	2,179	12.1
U.S. HIGHWAY	9	11.4	298	8.4	620	6.1	927	6.7	42	12.6	839	11.7	1,184	11.3	2,065	11.5
STATE NUMBERED	11	13.9	229	6.4	506	5.0	746	5.4	73	21.9	1,520	21.2	1,994	19.1	3,587	20.0
SINGLE STATE LETTERED	1	1.3	62	1.7	110	1.1	173	1.3	71	21.3	1,472	20.6	1,473	14.1	3,016	16.8
DOUBLE STATE LETTERED	2	2.5	19	0.5	62	0.6	83	0.6	34	10.2	551	7.7	532	5.1	1,117	6.2
OUTER ROAD	0	0.0	23	0.7	57	0.6	80	0.6	5	1.5	44	0.6	67	0.6	116	0.7
COUNTY ROAD	0	0.0	112	3.1	249	2.4	361	2.6	57	17.1	1,749	24.4	2,692	25.8	4,498	25.1
CITY STREET	34	43.0	1,797	50.4	6,146	60.1	7,977	57.5	8	2.4	229	3.2	820	7.9	1,057	5.9
INTERSTATE LOOP	0	0.0	5	0.1	23	0.2	28	0.2	0	0.0	2	0.0	11	0.1	13	0.1
OTHER <sup>1</sup>	0	0.0	117	3.3	672	6.6	789	5.7	6	1.8	44	0.6	251	2.4	301	1.7
TOTAL	79	100.0	3,565	100.0	10,219	100.0	13,863	100.0	334	100.0	7,164	100.0	10,451	100.0	17,949	100.0

<sup>1</sup> "Other" includes types of roads that are maintained by the State as well as by local jurisdictions.

**TABLE 3.10.8**

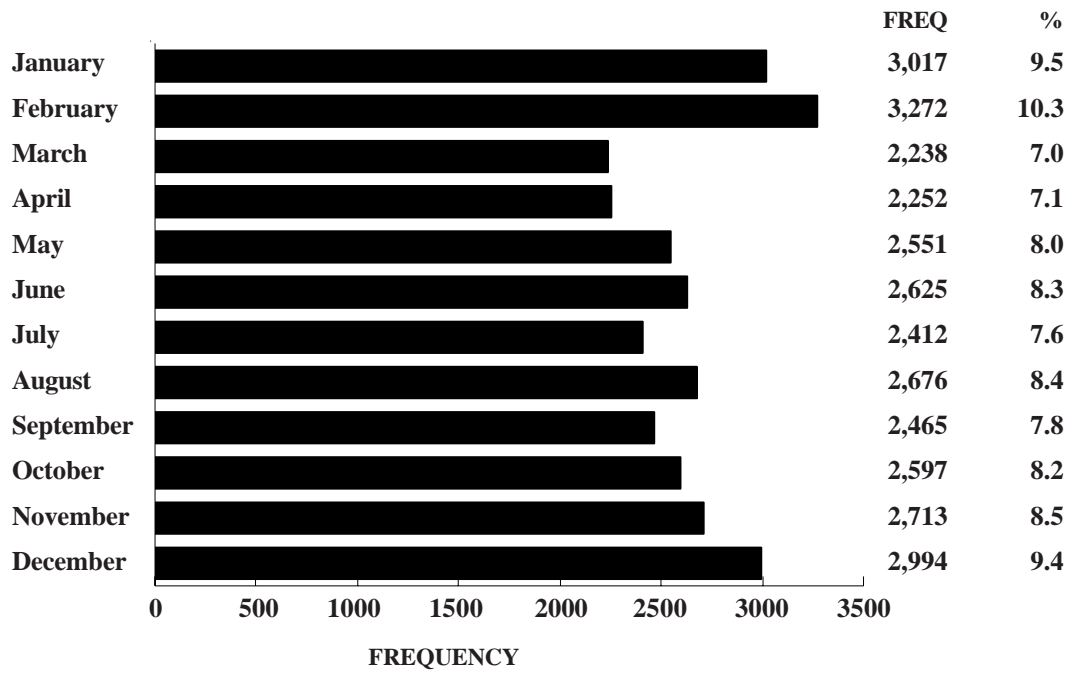
## 2003 FIXED OBJECT CRASHES

### TYPE OF OBJECT STRUCK BY CRASH SEVERITY

	FATAL	%	PERSONAL INJURY	%	PROPERTY DAMAGE	%	TOTAL	%
TREE	56	13.6	1,563	14.6	1,859	9.1	3,478	11.0
EMBANKMENT	127	30.9	2,497	23.3	2,427	11.9	5,051	16.0
GUARD RAIL FACE	19	4.6	496	4.6	1,081	5.3	1,596	5.1
GUARD RAIL END	6	1.5	144	1.4	233	1.1	383	1.2
UTILITY POLE	18	4.4	790	7.4	1,528	7.5	2,336	7.4
FENCE	24	5.8	523	4.9	1,868	9.1	2,415	7.7
STREET LIGHT SUPPORT	5	1.2	159	1.5	608	3.0	772	2.5
CULVERT	22	5.4	423	4.0	431	2.1	876	2.8
TRAFFIC SIGN POST	34	8.3	589	5.5	1,684	8.2	2,307	7.3
PIER/ABUTMENT	6	1.5	94	0.9	186	0.9	286	0.9
CURB	11	2.7	333	3.1	1,106	5.4	1,450	4.6
MAILBOX	13	3.2	224	2.1	836	4.1	1,073	3.4
CONCRETE TRAF. BARRIER	4	1.0	313	2.9	643	3.1	960	3.0
BUILDING	0	0.0	90	0.8	468	2.3	558	1.8
TRAFFIC SIGNAL SUPPORT	3	0.7	70	0.7	329	1.6	402	1.3
IMPACT ATTENUATOR	0	0.0	15	0.1	56	0.3	71	0.2
FIRE HYDRANT	0	0.0	57	0.5	353	1.7	410	1.3
BRIDGE PARAPET END	1	0.2	47	0.4	42	0.2	90	0.3
BRIDGE RAIL	4	1.0	122	1.1	264	1.3	390	1.2
MEDIAN BARRIER	4	1.0	409	3.8	898	4.4	1,311	4.2
OVERHEAD SIGN SUPPORT	0	0.0	15	0.1	31	0.2	46	0.2
DITCH	28	6.8	1,238	11.6	1,741	8.5	3,007	9.5
OTHER POST	4	1.0	98	0.9	339	1.7	441	1.4
WALL	2	0.5	96	0.9	287	1.4	385	1.2
OTHER	20	4.9	299	2.8	1,149	5.6	1,468	4.7
FIXED OBJECT TYPE UNKNOWN	2	-	25	-	223	-	250	-
<b>TOTAL</b>	<b>413</b>	<b>100.0</b>	<b>10,729</b>	<b>100.0</b>	<b>20,670</b>	<b>100.0</b>	<b>31,812</b>	<b>100.0</b>

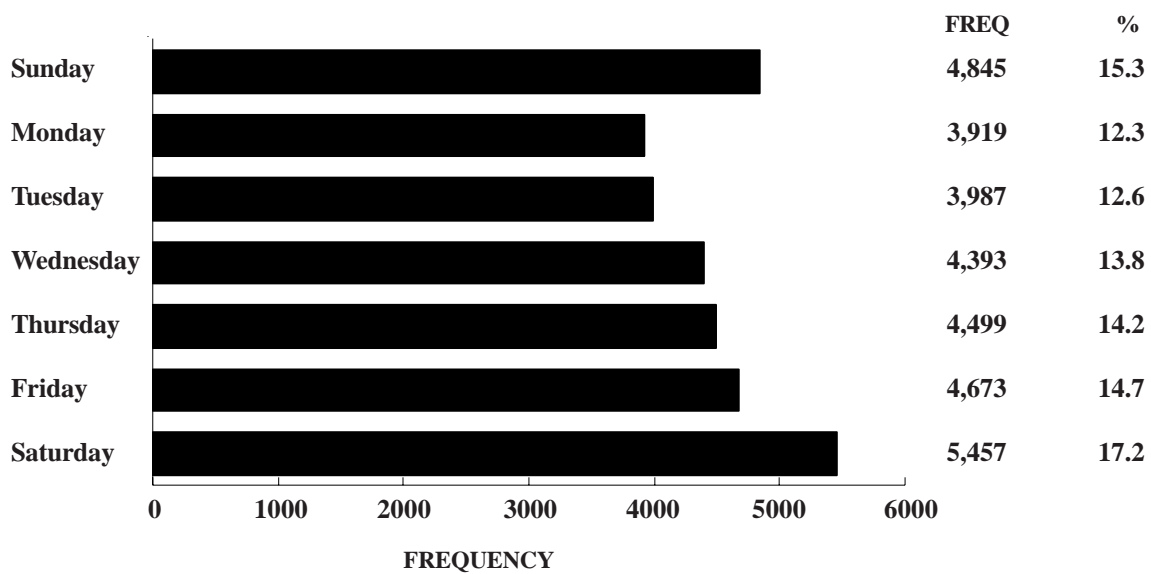
**TABLE 3.10.9**

**2003 MISSOURI FIXED OBJECT CRASHES  
MONTH OF YEAR**



**FIGURE 3.10.1**

**2003 MISSOURI FIXED OBJECT CRASHES  
DAY OF WEEK**

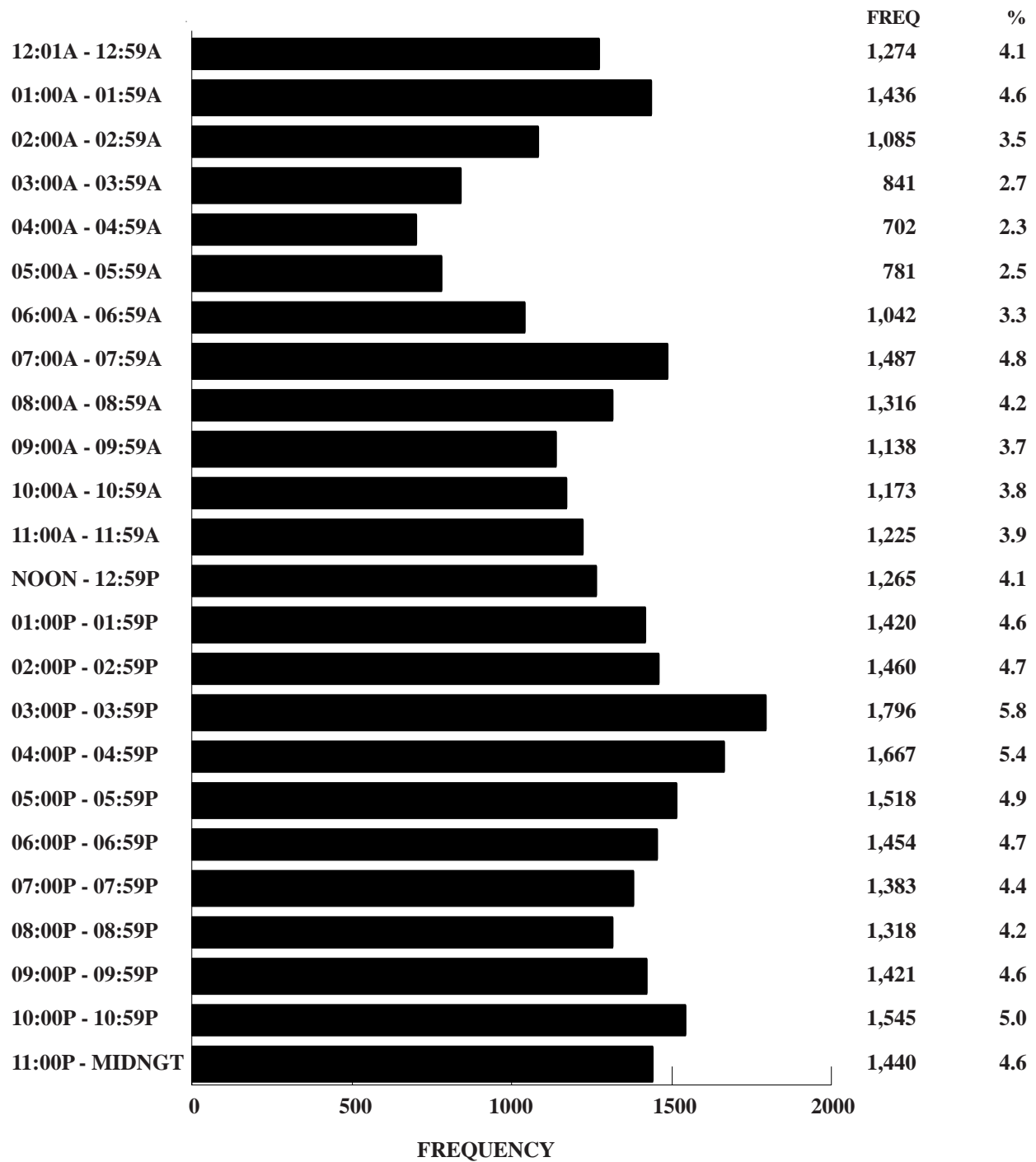


Unknown Data Not Included

**FIGURE 3.10.2**



**2003 MISSOURI FIXED OBJECT CRASHES  
HOUR OF DAY**



Unknown Data Not Included

**FIGURE 3.10.3**

## 2003 MISSOURI FIXED OBJECT CRASHES

### TYPE OF CIRCUMSTANCE INVOLVED BY CRASH SEVERITY AND PERSON CLASSIFICATION<sup>1</sup>

FATAL FIXED OBJECT CRASHES = 413				TOTAL FIXED OBJECT CRASHES = 31,812		
	VEHICLE/DRIVER STRIKING OBJ.	OTHER DRIVER/ VEHICLE/PED.	TOTAL FATAL	VEHICLE/DRIVER STRIKING OBJ.	OTHER DRIVER/ VEHICLE/PED.	TOTAL CRASHES
VEHICLE DEFECTS	1.0	0.0	1.0	4.2	0.0	4.2
TRAFFIC CONTROL INOPERATIVE / MISSING	0.0	0.0	0.0	0.0	0.0	0.0
IMPROPERLY STOPPED ON ROADWAY	0.0	0.0	0.0	0.1	0.0	0.1
EXCEEDING SPEED LIMIT / TOO FAST FOR CONDITIONS	58.6	0.5	58.6	44.1	0.2	44.2
IMPROPER PASSING	1.5	0.0	1.5	0.6	0.0	0.6
VIOLATION OF STOP SIGN	1.2	0.0	1.2	1.3	0.0	1.3
WRONG SIDE NOT PASSING	6.3	0.2	6.3	2.6	0.0	2.6
FOLLOWING TOO CLOSE	0.5	0.0	0.5	0.7	0.1	0.8
IMPROPER SIGNAL	0.0	0.0	0.0	0.0	0.0	0.0
IMPROPER BACKING	0.0	0.0	0.0	1.1	0.0	1.1
IMPROPER TURN	0.5	0.0	0.5	2.7	0.0	2.7
IMPROPER LANE USAGE / CHANGE	15.3	0.0	15.3	8.0	0.0	8.0
WRONG WAY ONE-WAY STREET	0.2	0.0	0.2	0.1	0.0	0.1
IMPROPER START FROM PARK	0.0	0.0	0.0	0.2	0.0	0.2
IMPROPERLY PARKED	0.0	0.0	0.0	0.3	0.0	0.3
FAILED TO YIELD	1.0	0.0	1.0	0.6	0.0	0.6
DRINKING	32.2	0.2	32.4	13.1	0.0	13.1
DRUGS	2.7	0.2	2.9	1.4	0.0	1.4
PHYSICAL IMPAIRMENT	8.0	0.2	8.2	6.1	0.0	6.1
INATTENTION	20.6	0.2	20.8	22.5	0.1	22.5

<sup>1</sup>This table identifies the proportion of fixed object crashes having a specific type of circumstance which contributed to the cause of the crash. This table further defines the proportion of crashes where the contributing circumstance was associated with the driver or vehicle striking the fixed object as well as those attributed to other persons and vehicles in the crash. For instance, when examining speed involvement in 2003 Missouri fixed object crashes, it was found that the driver of the vehicle striking the fixed object was speeding in 44.1% of the crashes. In 0.2% of the crashes another driver was speeding. In 44.2% of the crashes either the driver of the vehicle striking the fixed object, another driver, or both drivers were speeding.

**TABLE 3.10.10**

**2003 MISSOURI FIXED OBJECT CRASHES<sup>1</sup>**

**TYPE OF VEHICLE STRIKING FIXED OBJECT BY CRASH SEVERITY**

	<b>FATAL</b>	<b>%</b>	<b>PERSONAL INJURY</b>	<b>%</b>	<b>PROPERTY DAMAGE</b>	<b>%</b>	<b>TOTAL</b>	<b>%</b>
AUTOMOBILE	213	51.6	6,274	58.5	11,585	57.6	18,072	57.8
SPORT UTILITY VEHICLE	44	10.7	1,303	12.2	2,117	10.5	3,464	11.1
LIMOUSINE	0	0.0	1	0.0	1	0.0	2	0.0
VAN	18	4.4	470	4.4	965	4.8	1,453	4.7
BUS	0	0.0	13	0.1	60	0.3	73	0.2
SCHOOL BUS	0	0.0	8	0.1	48	0.2	56	0.2
MOTORCYCLE	26	6.3	284	2.7	28	0.1	338	1.1
MOPED	0	0.0	8	0.1	0	0.0	8	0.0
MOTOR HOME / CAMPER	1	0.2	7	0.1	35	0.2	43	0.1
FARM EQUIPMENT	0	0.0	2	0.0	10	0.1	12	0.0
CONSTRUCTIONEQUIPMENT	0	0.0	0	0.0	19	0.1	19	0.1
OTHER TRANSPORT DEVICE	0	0.0	4	0.0	21	0.1	25	0.1
PICKUP TRUCK	89	21.6	2,057	19.2	3,717	18.5	5,863	18.8
OTHER TRUCKS	15	3.6	255	2.4	1,516	7.5	1,786	5.7
ALL TERRAIN VEHICLE	7	1.7	37	0.4	1	0.0	45	0.1
UNKNOWN	0	-	6	-	547	-	553	-
<b>TOTAL</b>	<b>413</b>	<b>100.0</b>	<b>10,729</b>	<b>100.0</b>	<b>20,670</b>	<b>100.0</b>	<b>31,812</b>	<b>100.0</b>

<sup>1</sup>This table includes only those vehicles striking a fixed object during the first harmful event in a crash.

**TABLE 3.10.11**

## VEHICLES STRIKING FIXED OBJECTS IN 2003 MISSOURI CRASHES<sup>1</sup>

### DRIVER INVOLVEMENT BY CRASH SEVERITY

	FATAL	%	PERSONAL INJURY	%	PROPERTY DAMAGE	%	TOTAL	%
DRIVERLESS	0	0.0	8	0.1	192	0.9	200	0.6
KNOWN DRIVER INVOLVED	410	99.3	10,670	99.4	18,029	87.2	29,109	91.5
UNKNOWN DRIVER INVOLVED	3	0.7	51	0.5	2,449	11.9	2,503	7.9
<b>TOTAL</b>	<b>413</b>	<b>100.0</b>	<b>10,729</b>	<b>100.0</b>	<b>20,670</b>	<b>100.0</b>	<b>31,812</b>	<b>100.0</b>

<sup>1</sup>This table includes only vehicles striking fixed objects during the first harmful event in a crash.

**TABLE 3.10.12**

## DRIVERS OF VEHICLES STRIKING FIXED OBJECTS IN 2003 MISSOURI CRASHES<sup>1</sup>

### SEX OF DRIVER BY CRASH SEVERITY

	FATAL	%	PERSONAL INJURY	%	PROPERTY DAMAGE	%	TOTAL	%
MALE	311	76.0	6,430	60.3	11,716	66.4	18,457	64.2
FEMALE	98	24.0	4,235	39.7	5,938	33.6	10,271	35.8
UNKNOWN	4	-	56	-	2,824	-	2,884	-
<b>TOTAL</b>	<b>413</b>	<b>100.0</b>	<b>10,721</b>	<b>100.0</b>	<b>20,478</b>	<b>100.0</b>	<b>31,612</b>	<b>100.0</b>

<sup>1</sup>The table includes only drivers of vehicles striking fixed objects during the first harmful event in a crash.

**TABLE 3.10.13**

**DRIVERS OF VEHICLES STRIKING FIXED OBJECTS IN 2003 MISSOURI CRASHES<sup>1</sup>**

**AGE OF DRIVER BY CRASH SEVERITY**

	<b>FATAL</b>	<b>%</b>	<b>PERSONAL INJURY</b>	<b>%</b>	<b>PROPERTY DAMAGE</b>	<b>%</b>	<b>TOTAL</b>	<b>%</b>
<b>AVERAGE AGE OF DRIVER</b>	37.2	-	32.7	-	32.9	-	32.9	-
14 YEARS AND UNDER	6	1.5	87	0.8	137	0.8	230	0.8
15 - 20 YEARS	79	19.3	2,969	28.0	4,734	26.5	7,782	27.0
21 - 25 YEARS	71	17.4	1,759	16.6	2,912	16.3	4,742	16.4
26 - 30 YEARS	29	7.1	1,102	10.4	1,920	10.8	3,051	10.6
31 - 35 YEARS	28	6.9	912	8.6	1,599	9.0	2,539	8.8
36 - 40 YEARS	38	9.3	783	7.4	1,460	8.2	2,281	7.9
41 - 45 YEARS	40	9.8	805	7.6	1,456	8.2	2,301	8.0
46 - 50 YEARS	33	8.1	658	6.2	1,115	6.2	1,806	6.3
51 - 55 YEARS	19	4.7	483	4.6	792	4.4	1,294	4.5
56 - 60 YEARS	18	4.4	323	3.1	609	3.4	950	3.3
61 - 65 YEARS	9	2.2	213	2.0	351	2.0	573	2.0
66 YEARS AND OVER	39	9.5	510	4.8	774	4.3	1,323	4.6
UNKNOWN	4	-	117	-	2,619	-	2,740	-
<b>TOTAL</b>	413	100.0	10,721	100.0	20,478	100.0	31,612	100.0

<sup>1</sup>This table includes only drivers of vehicles striking fixed objects during the first harmful event in a crash.

**TABLE 3.10.14**

**DRIVERS OF VEHICLES STRIKING FIXED OBJECTS IN 2003 MISSOURI CRASHES<sup>1</sup>**

**DRIVER'S LICENSE STATE AND TYPE BY CRASH SEVERITY**

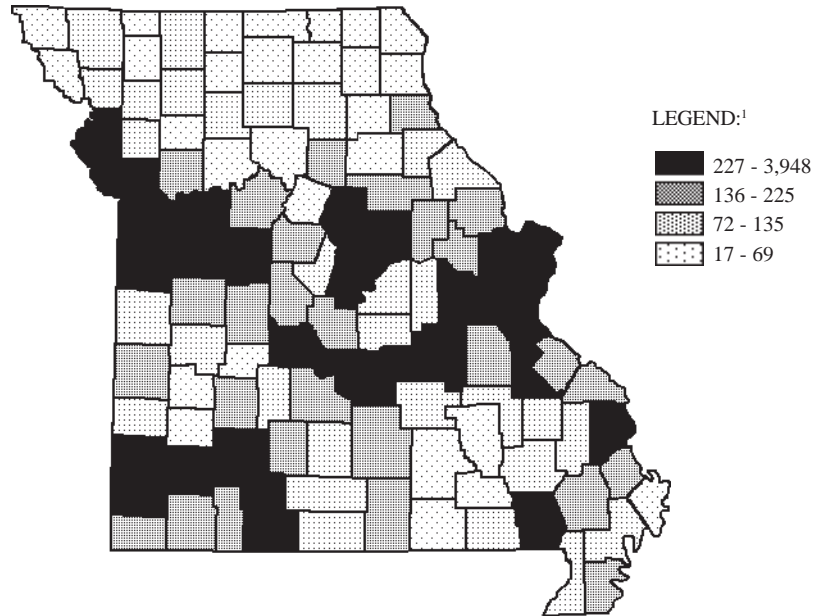
	<b>FATAL</b>	<b>%</b>	<b>PERSONAL INJURY</b>	<b>%</b>	<b>PROPERTY DAMAGE</b>	<b>%</b>	<b>TOTAL</b>	<b>%</b>
<b>MISSOURI</b>								
LEARNER'S PERMIT	2	0.5	116	1.1	133	0.8	251	0.9
OPERATOR'S LICENSE	270	66.7	8,122	77.5	12,965	75.1	21,357	75.9
MOTORCYCLE ONLY	0	0.0	0	0.0	0	0.0	0	0.0
COMMERCIAL DRIVER'S LICENSE	17	4.2	476	4.5	1,145	6.6	1,638	5.8
SUBTOTAL	289	71.4	8,714	83.2	14,243	82.5	23,246	82.6
<b>OUT STATE</b>								
LEARNER'S PERMIT	0	0.0	4	0.0	4	0.0	8	0.0
OPERATOR'S LICENSE	44	10.9	842	8.0	1,562	9.1	2,448	8.7
MOTORCYCLE ONLY	0	0.0	0	0.0	1	0.0	1	0.0
COMMERCIAL DRIVER'S LICENSE	12	3.0	109	1.0	577	3.3	698	2.5
SUBTOTAL	56	13.8	955	9.1	2,144	12.4	3,155	11.2
UNLICENSED	60	14.8	806	7.7	878	5.1	1,744	6.2
UNKNOWN	8	-	246	-	3,213	-	3,467	-
<b>TOTAL</b>	<b>413</b>	<b>100.0</b>	<b>10,721</b>	<b>100.0</b>	<b>20,478</b>	<b>100.0</b>	<b>31,612</b>	<b>100.0</b>

<sup>1</sup>This table includes only drivers of vehicles striking fixed objects during the first harmful event in a crash.

**TABLE 3.10.15**

## 2003 FIXED OBJECT INVOLVED CRASHES

### COUNTY QUARTILE ANALYSIS



<sup>1</sup>LEGEND CATEGORIES ARE BASED ON QUARTILES OF COUNTIES.

RANK	COUNTY	FREQUENCY	PERCENT	RANK	COUNTY	FREQUENCY	PERCENT
1.0	ST. LOUIS	3,948	12.4	22.0	CALLAWAY	283	0.9
2.0	JACKSON	3,634	11.4	23.0	BUTLER	282	0.9
3.0	ST. LOUIS CITY	2,311	7.3	24.0	CHRISTIAN	269	0.8
4.0	JEFFERSON	1,336	4.2	25.0	LAFAYETTE	263	0.8
5.0	ST. CHARLES	1,228	3.9	26.0	CAMDEN	256	0.8
6.0	GREENE	1,059	3.3	27.0	PETTIS	246	0.8
7.0	CLAY	961	3.0	28.0	LAWRENCE	243	0.8
8.0	FRANKLIN	767	2.4	29.0	CRAWFORD	227	0.7
9.0	BOONE	634	2.0				First Quartile
10.0	PLATTE	528	1.7				Second Quartile
11.0	BUCHANAN	469	1.5	30.0	BARRY	225	0.7
12.0	CAPE GIRARDEAU	452	1.4	31.0	LACLEDE	224	0.7
13.0	JASPER	449	1.4	32.0	POLK	217	0.7
14.0	ST. FRANCOIS	385	1.2	33.0	LINCOLN	211	0.7
15.0	PHELPS	375	1.2	34.0	WARREN	204	0.6
16.5	CASS	354	1.1	35.0	MCDONALD	201	0.6
16.5	TANEY	354	1.1	36.0	SCOTT	200	0.6
18.0	COLE	328	1.0	37.5	HOWELL	196	0.6
19.0	JOHNSON	327	1.0	37.5	WEBSTER	196	0.6
20.0	NEWTON	320	1.0	39.0	STONE	195	0.6
21.0	PULASKI	285	0.9				

RANK	COUNTY	FREQUENCY	PERCENT	RANK	COUNTY	FREQUENCY	PERCENT
40.0	MARION	193	0.6	78.5	LIVINGSTON	87	0.3
41.0	MONTGOMERY	184	0.6	78.5	OSAGE	87	0.3
42.0	MORGAN	178	0.6	80.0	DE KALB	85	0.3
43.0	HENRY	172	0.5	81.0	MACON	84	0.3
44.0	MILLER	169	0.5	82.0	BARTON	83	0.3
45.0	SALINE	166	0.5	83.0	RALLS	80	0.3
46.0	STE. GENEVIEVE	162	0.5	84.0	DAVIESS	76	0.2
48.0	AUDRAIN	159	0.5	85.0	OZARK	75	0.2
48.0	PEMISCOT	159	0.5	86.0	MARIES	73	0.2
48.0	STODDARD	159	0.5	87.0	HARRISON	72	0.2
50.0	PERRY	158	0.5				Third Quartile
51.0	RAY	157	0.5				
52.0	BENTON	153	0.5				Fourth Quartile
53.0	WASHINGTON	151	0.5	88.0	MISSISSIPPI	69	0.2
54.0	RANDOLPH	144	0.5	89.5	ADAIR	68	0.2
55.0	TEXAS	140	0.4	89.5	CEDAR	68	0.2
56.0	COOPER	137	0.4	91.0	CARROLL	67	0.2
57.0	VERNON	136	0.4	92.0	CHARITON	62	0.2
			Second Quartile	93.5	HOLT	58	0.2
				93.5	OREGON	58	0.2
			Third Quartile	95.0	HOWARD	57	0.2
58.5	NEW MADRID	135	0.4	96.5	MONROE	56	0.2
58.5	WAYNE	135	0.4	96.5	REYNOLDS	56	0.2
60.0	DUNKLIN	134	0.4	98.0	CALDWELL	54	0.2
61.0	CLINTON	131	0.4	99.0	HICKORY	51	0.2
62.0	ANDREW	128	0.4	100.5	GRUNDY	49	0.2
63.0	GASCONADE	125	0.4	100.5	LEWIS	49	0.2
64.0	BATES	122	0.4	102.0	CLARK	44	0.1
65.0	MONITEAU	114	0.4	103.0	ATCHISON	43	0.1
66.0	DALLAS	112	0.4	104.0	SHANNON	42	0.1
67.0	NODAWAY	111	0.3	105.0	DADE	41	0.1
68.0	DENT	108	0.3	106.0	CARTER	40	0.1
69.0	MADISON	102	0.3	107.0	SULLIVAN	38	0.1
70.0	LINN	101	0.3	108.0	GENTRY	35	0.1
71.5	RIPLEY	97	0.3	109.0	PUTNAM	34	0.1
71.5	WRIGHT	97	0.3	110.0	KNOX	31	0.1
73.0	BOLLINGER	96	0.3	111.0	SCOTLAND	27	0.1
74.5	IRON	93	0.3	112.0	MERCER	23	0.1
74.5	PIKE	93	0.3	113.0	SHELBY	22	0.1
76.0	ST. CLAIR	90	0.3	114.0	WORTH	20	0.1
77.0	DOUGLAS	88	0.3	115.0	SCHUYLER	17	0.1

TABLE 3.10.16



## 2003 FIXED OBJECT INVOLVED CRASHES

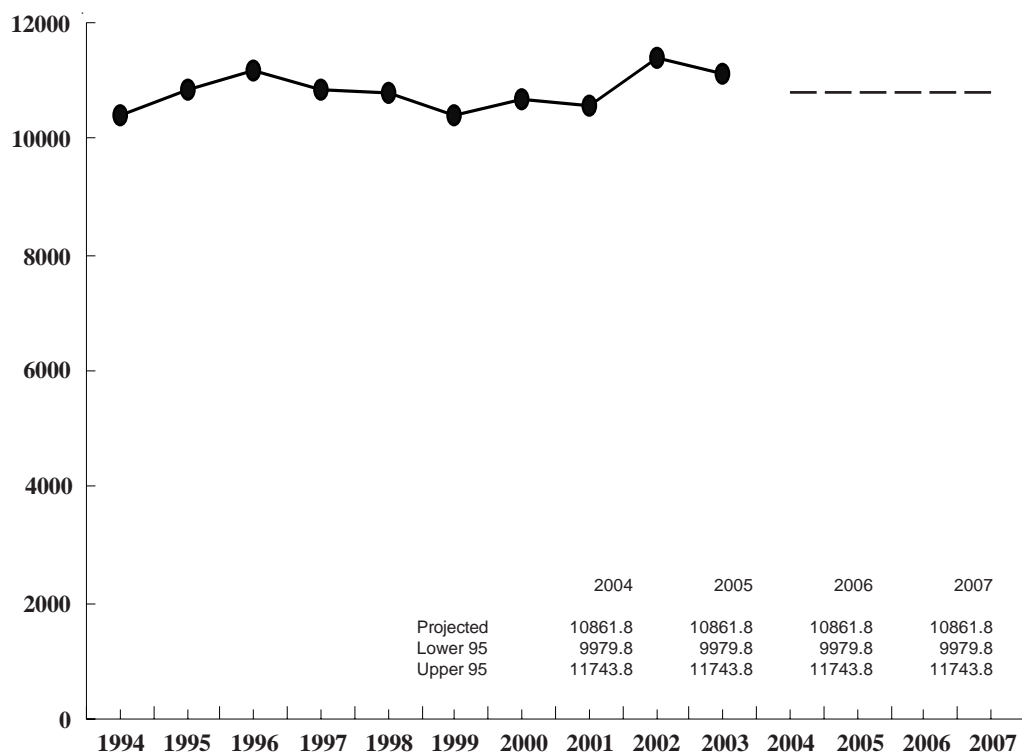
### CITY LISTING

RANK	CITY	FREQUENCY	PERCENT <sup>1</sup>
1.0	KANSAS CITY	2,945	18.7
2.0	ST. LOUIS	2,311	14.7
3.0	SPRINGFIELD	580	3.7
4.0	INDEPENDENCE	485	3.1
5.0	ST. JOSEPH	344	2.2
6.0	COLUMBIA	332	2.1
7.0	LEE'S SUMMIT	265	1.7
8.0	ST. CHARLES	223	1.4
9.0	CHESTERFIELD	220	1.4
10.0	CAPE GIRARDEAU	208	1.3
11.0	MARYLAND HEIGHTS	187	1.2
12.0	ST. PETERS	182	1.2
13.0	O'FALLON	170	1.1
14.0	JOPLIN	169	1.1
15.0	BLUE SPRINGS	161	1.0
16.0	JEFFERSON CITY	153	1.0
17.0	KIRKWOOD	147	0.9
18.0	BRIDGETON	140	0.9
19.0	WILDWOOD	133	0.8
20.0	SUNSET HILLS	131	0.8
21.0	WENTZVILLE	119	0.8
22.0	LIBERTY	115	0.7
23.0	FLORISSANT	111	0.7
24.0	BERKELEY	108	0.7
25.0	HANNIBAL	103	0.7
26.0	ROLLA	101	0.6
27.0	LADUE	99	0.6
28.0	POPLAR BLUFF	96	0.6
29.0	ARNOLD	92	0.6
30.0	GRANDVIEW	91	0.6
31.0	OVERLAND	88	0.6
33.0	HAZELWOOD	87	0.6
33.0	TOWN AND COUNTRY	87	0.6
33.0	UNIVERSITY CITY	87	0.6
35.0	CREVE COEUR	86	0.5
36.0	PEVELY	83	0.5
37.0	SEDALIA	77	0.5
38.0	ST. ROBERT	76	0.5
39.0	RAYTOWN	75	0.5
40.0	BALLWIN	73	0.5

<sup>1</sup>Percentage is based on fixed object involved crashes which occurred in Missouri municipalities with populations of 1,000 or more. Only those municipalities comprising 0.5% or more of these crashes are listed.

**TABLE 3.10.17**

# **MISSOURI FATAL AND PERSONAL INJURY FIXED OBJECT CRASHES ANNUAL TIME SERIES**



**FIGURE 3.10.4**

### 3.11 HAZARDOUS MATERIAL INVOLVEMENT

***This section presents a series of data displays which identify hazardous material involvement in Missouri's traffic crash experience. Hazardous material traffic crashes are defined as any crash in which one or more of the vehicles involved were carrying hazardous materials. Data displays also are provided which identify characteristics about the type of hazardous material being carried as well as the vehicle and driver transporting the material.***

#### 2003 SUMMARY ANALYSIS

- Of all 2003 Missouri traffic crashes, 0.1% involved hazardous materials. Of all fatal traffic crashes, 0.3% were hazardous material related. Three persons were killed and 47 were injured in traffic crashes involving hazardous materials.
- There was a decrease of 24.2% in the rate of change when comparing all 2003 hazardous material involved traffic crash activity with that in 2002. There was a decrease of 25.0% in the rate of change when comparing fatal 2003 hazardous material involved traffic crashes with those in 2002.
- In 2003, one person was killed or injured in hazardous material involved traffic crashes every 7.3 days in the State of Missouri.
- Of all 2003 hazardous material traffic crashes, the first harmful event in 57.8% of the cases involved one motor vehicle in transport striking another motor vehicle in transport. The first harmful event in 19.0% of the cases was a motor vehicle in transport striking a fixed object and in 15.5% of the incidents a motor vehicle overturned.
- Of all 2003 hazardous material traffic crashes, 39.7% occurred in urban areas and 60.3% occurred in rural areas of the State. Two of the three fatal crashes occurred in a rural area.
- Of all vehicles carrying hazardous materials in traffic crashes, 58.5% were two-unit trucks and 26.3% were single unit trucks.
- Of all vehicles carrying hazardous materials, 12.7% had their materials released as a result of the traffic crash.
- Of the drivers transporting hazardous materials in 2003 traffic crashes, 96.6% were male and 3.4% were female. The average age of the driver was 42.2 years.
- Of the drivers, 65.0% had a Missouri driver's license and 35.0% had an out-of-state driver's license at the time of the crash.

**2003 MISSOURI TRAFFIC CRASHES**  
**HAZARDOUS MATERIAL INVOLVEMENT**

	FATAL		PERSONAL INJURY		PROPERTY DAMAGE		TOTAL		%		TOTAL NUMBER <sup>1</sup>		DRIVERS/PASSENGERS OF VEHICLES CARRYING HAZARDOUS MATERIALS <sup>2</sup>	
		%		%		%		%		%	KILLED	INJURED	KILLED	INJURED
HAZARDOUS MATERIALS INVOLVED	3	0.3	38	0.1	75	0.1	116	0.1			3	47	1	29
NO HAZARDOUS MATERIALS INVOLVED	1,092	99.7	45,928	99.9	135,488	99.9	182,508	99.9			1,229	69,074	-	-
<b>TOTAL</b>	<b>1,095</b>	<b>100.0</b>	<b>45,966</b>	<b>100.0</b>	<b>135,563</b>	<b>100.0</b>	<b>182,624</b>	<b>100.0</b>			<b>1,232</b>	<b>69,121</b>	<b>1</b>	<b>29</b>

<sup>1</sup>This statistic indicates the total number of persons killed and injured in a crash where hazardous materials were involved.

<sup>2</sup>This statistic indicates the number of drivers and passengers of vehicles carrying hazardous materials killed and injured.

**TABLE 3.11.1**

### 2002 and 2003 HAZARDOUS MATERIAL INVOLVED CRASH ANALYSIS

	2002	2003	RATE OF CHANGE
FATAL	4	3	- 25.0
PERSONAL INJURY	41	38	- 7.3
PROPERTY DAMAGE	108	75	- 30.6
TOTAL	153	116	- 24.2

**TABLE 3.11.2**

### 2003 HAZARDOUS MATERIAL INVOLVED CRASHES

#### CRASH TYPE BY CRASH SEVERITY

	FATAL	%	PERSONAL INJURY	%	PROPERTY DAMAGE	%	TOTAL	%
ANIMAL	0	0.0	0	0.0	1	1.3	1	0.9
BICYCLIST	0	0.0	0	0.0	0	0.0	0	0.0
FIXED OBJECT	1	33.3	8	21.1	13	17.3	22	19.0
OTHER OBJECT	0	0.0	0	0.0	2	2.7	2	1.7
PEDESTRIAN	0	0.0	0	0.0	0	0.0	0	0.0
TRAIN	0	0.0	0	0.0	0	0.0	0	0.0
VEHICLE IN TRANSPORT	2	66.7	15	39.5	50	66.7	67	57.8
VEHICLE ON OTHER ROADWAY	0	0.0	0	0.0	1	1.3	1	0.9
PARKED VEHICLE	0	0.0	0	0.0	3	4.0	3	2.6
NONCOLLISION OVERTURN	0	0.0	15	39.5	3	4.0	18	15.5
NONCOLLISION OTHER	0	0.0	0	0.0	2	2.7	2	1.7
<b>TOTAL</b>	<b>3</b>	<b>100.0</b>	<b>38</b>	<b>100.0</b>	<b>75</b>	<b>100.0</b>	<b>116</b>	<b>100.0</b>

**TABLE 3.11.3**

## 2003 HAZARDOUS MATERIAL INVOLVED CRASHES

### AREA CLASSIFICATION BY CRASH SEVERITY

	FATAL	%	PERSONAL INJURY	%	PROPERTY DAMAGE	%	TOTAL	%
URBAN	1	33.3	13	34.2	32	42.7	46	39.7
RURAL	2	66.7	25	65.8	43	57.3	70	60.3
<b>TOTAL</b>	3	100.0	38	100.0	75	100.0	116	100.0

TABLE 3.11.4

## 2003 HAZARDOUS MATERIAL INVOLVED CRASHES

### ROAD CURVATURE BY CRASH SEVERITY

	FATAL	%	PERSONAL INJURY	%	PROPERTY DAMAGE	%	TOTAL	%
STRAIGHT	1	33.3	28	73.7	62	83.8	91	79.1
CURVE	2	66.7	10	26.3	12	16.2	24	20.9
UNKNOWN	0	-	0	-	1	-	1	-
<b>TOTAL</b>	3	100.0	38	100.0	75	100.0	116	100.0

TABLE 3.11.5

## 2003 HAZARDOUS MATERIAL INVOLVED CRASHES

### ROAD INCLINE BY CRASH SEVERITY

	FATAL	%	PERSONAL INJURY	%	PROPERTY DAMAGE	%	TOTAL	%
LEVEL	1	33.3	16	42.1	58	79.5	75	65.8
HILL	2	66.7	22	57.9	15	20.5	39	34.2
CREST	0	0.0	0	0.0	0	0.0	0	0.0
UNKNOWN	0	-	0	-	2	-	2	-
<b>TOTAL</b>	3	100.0	38	100.0	75	100.0	116	100.0

TABLE 3.11.6

## 2003 HAZARDOUS MATERIAL INVOLVED CRASHES

### ROAD CONDITIONS BY CRASH SEVERITY

	FATAL	%	PERSONAL INJURY	%	PROPERTY DAMAGE	%	TOTAL	%
DRY	3	100.0	32	84.2	58	77.3	93	80.2
WET	0	0.0	4	10.5	15	20.0	19	16.4
SNOW	0	0.0	2	5.3	2	2.7	4	3.4
ICE	0	0.0	0	0.0	0	0.0	0	0.0
SLUSH	0	0.0	0	0.0	0	0.0	0	0.0
MUD	0	0.0	0	0.0	0	0.0	0	0.0
STANDING WATER	0	0.0	0	0.0	0	0.0	0	0.0
MOVING WATER	0	0.0	0	0.0	0	0.0	0	0.0
UNKNOWN	0	-	0	-	0	-	0	-
<b>TOTAL</b>	<b>3</b>	<b>100.0</b>	<b>38</b>	<b>100.0</b>	<b>75</b>	<b>100.0</b>	<b>116</b>	<b>100.0</b>

**TABLE 3.11.7**

## 2003 HAZARDOUS MATERIAL INVOLVED CRASHES

### HIGHWAY CLASSIFICATION BY CRASH SEVERITY

	FATAL	%	PERSONAL INJURY	%	PROPERTY DAMAGE	%	TOTAL	%
INTERSTATE	0	0.0	9	23.7	23	30.7	32	27.6
U.S. HIGHWAY	1	33.3	8	21.1	16	21.3	25	21.6
STATE NUMBERED	1	33.3	9	23.7	13	17.3	23	19.8
SINGLE STATE LETTERED	0	0.0	3	7.9	6	8.0	9	7.8
DOUBLE STATE LETTERED	0	0.0	1	2.6	2	2.7	3	2.6
OUTER ROAD	0	0.0	0	0.0	0	0.0	0	0.0
COUNTY ROAD	0	0.0	2	5.3	2	2.7	4	3.5
CITY STREET	0	0.0	6	15.8	12	16.0	18	15.5
INTERSTATE LOOP	1	33.3	0	0.0	0	0.0	1	0.9
OTHER <sup>1</sup>	0	0.0	0	0.0	1	1.3	1	0.9
<b>TOTAL</b>	<b>3</b>	<b>100.0</b>	<b>38</b>	<b>100.0</b>	<b>75</b>	<b>100.0</b>	<b>116</b>	<b>100.0</b>

<sup>1</sup>"Other" includes types of roads that are maintained by the State as well as by local jurisdictions.

**TABLE 3.11.8**

**2003 MISSOURI HAZARDOUS MATERIAL INVOLVED CRASHES  
MONTH OF YEAR**

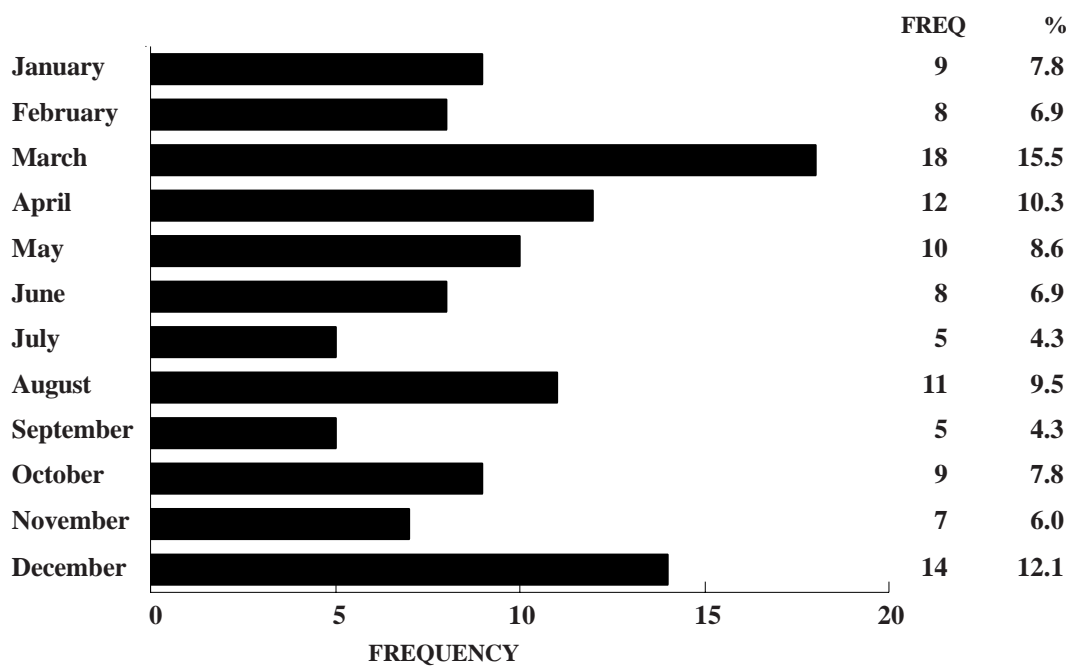


FIGURE 3.11.1

**2003 MISSOURI HAZARDOUS MATERIAL INVOLVED CRASHES  
DAY OF WEEK**

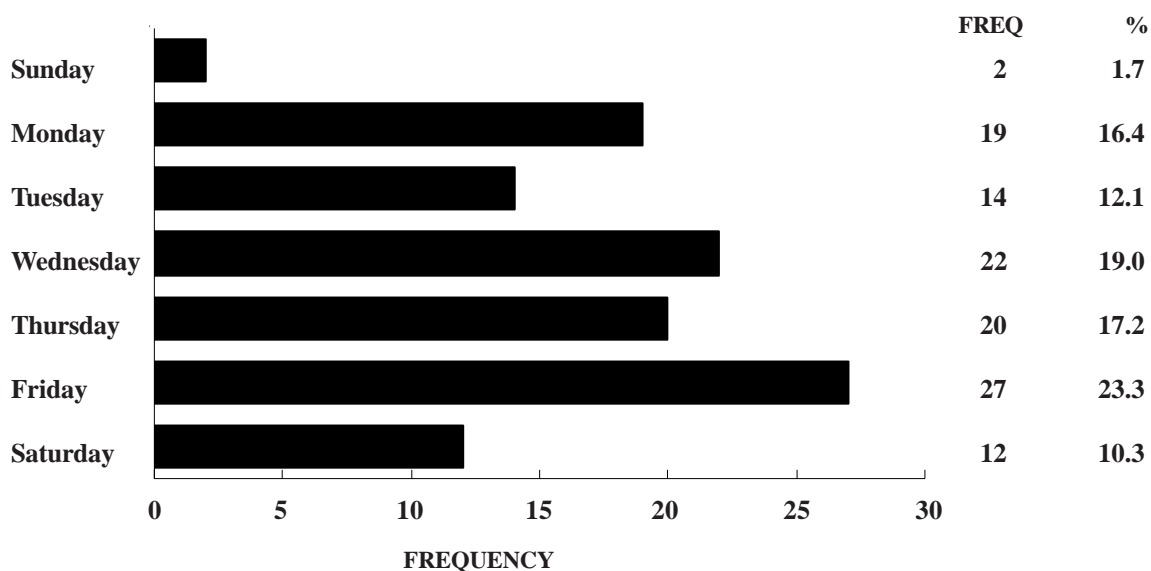
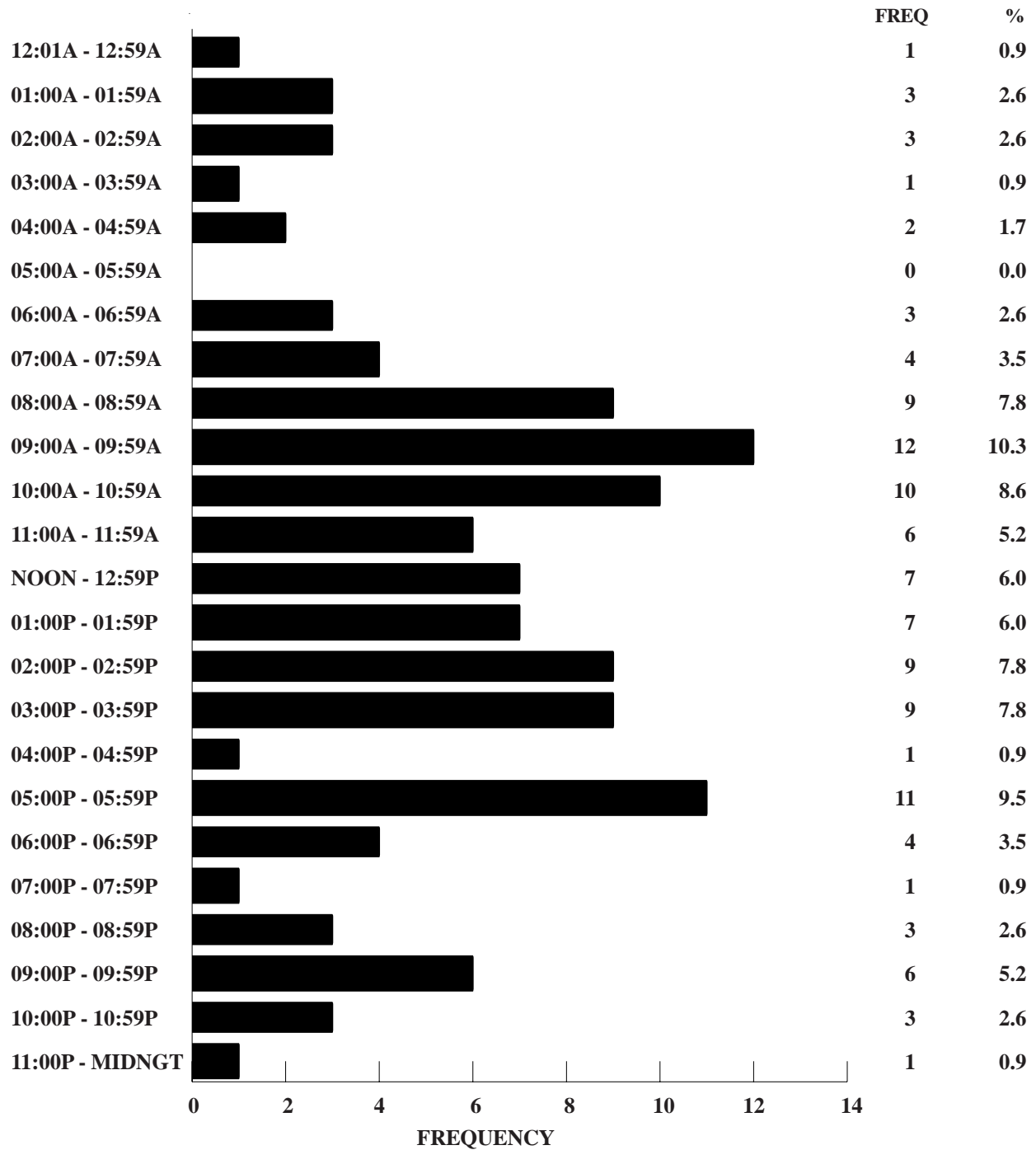


FIGURE 3.11.2



**2003 MISSOURI HAZARDOUS MATERIAL INVOLVED CRASHES  
HOUR OF DAY**



**FIGURE 3.11.3**

## VEHICLES CARRYING HAZARDOUS MATERIALS INVOLVED IN 2003 MISSOURI CRASHES

### TYPE OF VEHICLE BY CRASH SEVERITY

	FATAL	%	PERSONAL INJURY	%	PROPERTY DAMAGE	%	TOTAL	%
PASSENGER CAR	0	0.0	0	0.0	4	5.2	4	3.4
SPORT UTILITY VEHICLE	0	0.0	0	0.0	2	2.6	2	1.7
VAN	0	0.0	1	2.6	3	3.9	4	3.4
PICKUP TRUCK	0	0.0	3	7.9	5	6.5	8	6.8
SINGLE UNIT TRUCK	1	33.3	14	36.8	16	20.8	31	26.3
TWO UNIT TRUCK	2	66.7	20	52.6	47	61.0	69	58.5
<b>TOTAL</b>	<b>3</b>	<b>100.0</b>	<b>38</b>	<b>100.0</b>	<b>77</b>	<b>100.0</b>	<b>118</b>	<b>100.0</b>

**TABLE 3.11.9**

## VEHICLES CARRYING HAZARDOUS MATERIALS INVOLVED IN 2003 MISSOURI CRASHES

### TYPE OF HAZARDOUS MATERIAL CARRIED BY SPILLAGE AND CRASH SEVERITY

	FATAL	%	PERSONAL INJURY	%	PROPERTY DAMAGE	%	TOTAL	%
<b>SPILLED</b>								
GASES IN BULK	0	0.0	0	0.0	1	1.3	1	0.9
SOLIDS IN BULK	0	0.0	1	2.6	0	0.0	1	0.9
LIQUIDS IN BULK	0	0.0	10	26.3	2	2.6	12	10.2
EXPLOSIVES	0	0.0	0	0.0	1	1.3	1	0.9
SUBTOTAL	0	0.0	11	28.9	4	5.2	15	12.7
<b>NOT SPILLED</b>								
GASES IN BULK	1	33.3	8	21.1	23	29.9	32	27.1
SOLIDS IN BULK	0	0.0	4	10.5	13	16.9	17	14.4
LIQUIDS IN BULK	2	66.7	15	39.5	31	40.3	48	40.7
EXPLOSIVES	0	0.0	0	0.0	6	7.8	6	5.1
SUBTOTAL	3	100.0	27	71.1	73	94.8	103	87.3
<b>TOTAL</b>	<b>3</b>	<b>100.0</b>	<b>38</b>	<b>100.0</b>	<b>77</b>	<b>100.0</b>	<b>118</b>	<b>100.0</b>

**TABLE 3.11.10**

## 2003 MISSOURI HAZARDOUS MATERIAL CRASHES

### TYPE OF CIRCUMSTANCE INVOLVED BY CRASH SEVERITY AND PERSON CLASSIFICATION<sup>1</sup>

FATAL HAZARDOUS MATERIAL CRASHES = 3				TOTAL HAZARDOUS MATERIAL CRASHES = 116		
	HAZARDOUS MATERIAL DRIVER/VEH.	OTHER DRIVER/ VEHICLE/PED.	TOTAL FATAL	HAZARDOUS MATERIAL DRIVER/VEH.	OTHER DRIVER/ VEHICLE/PED.	TOTAL CRASHES
VEHICLE DEFECTS	0.0	0.0	0.0	4.3	1.7	6.0
TRAFFIC CONTROL INOPERATIVE / MISSING	0.0	0.0	0.0	0.0	0.0	0.0
IMPROPERLY STOPPED ON ROADWAY	0.0	0.0	0.0	0.0	0.9	0.9
EXCEEDING SPEED LIMIT/ TOO FAST FOR CONDITIONS	33.3	0.0	33.3	15.5	5.2	19.8
IMPROPER PASSING	0.0	0.0	0.0	0.0	2.6	2.6
VIOLATION OF STOP SIGN	0.0	0.0	0.0	1.7	0.9	2.6
WRONG SIDE NOT PASSING	33.3	0.0	33.3	4.3	3.4	7.7
FOLLOWING TOO CLOSE	0.0	0.0	0.0	5.2	0.9	5.2
IMPROPER SIGNAL	0.0	0.0	0.0	0.0	0.0	0.0
IMPROPER BACKING	0.0	0.0	0.0	0.9	0.0	0.9
IMPROPER TURN	0.0	0.0	0.0	1.7	0.0	1.7
IMPROPER LANE USAGE / CHANGE	0.0	0.0	0.0	8.6	4.3	12.9
WRONG WAY ONE-WAY STREET	0.0	0.0	0.0	0.0	0.9	0.9
IMPROPER START FROM PARK	0.0	0.0	0.0	0.0	0.9	0.9
IMPROPERLY PARKED	0.0	0.0	0.0	0.0	0.9	0.9
FAILED TO YIELD	0.0	33.3	33.3	6.0	6.9	12.1
DRINKING	0.0	0.0	0.0	0.0	0.0	0.0
DRUGS	0.0	0.0	0.0	0.0	0.0	0.0
PHYSICAL IMPAIRMENT	0.0	33.3	33.3	2.6	2.6	5.2
INATTENTION	0.0	0.0	0.0	22.4	9.5	31.0

<sup>1</sup>This table identifies the percentage of hazardous material crashes having a specific type of circumstance which contributed to the cause of the crash. This table further defines the percentage of crashes where the contributing circumstance was associated with the driver of the vehicle carrying hazardous materials or his vehicle as well as those attributed to other persons and vehicles in the crash. For instance, when examining speed involvement in 2003 Missouri hazardous material crashes, it was found that the driver of a vehicle carrying hazardous materials was speeding in 15.5% of the crashes. In 5.2% of the crashes another driver was speeding. In 19.8% of the crashes either the driver of the vehicle carrying hazardous materials, another driver, or both drivers were speeding.

**TABLE 3.11.11**

# VEHICLES CARRYING HAZARDOUS MATERIALS IN 2003 MISSOURI CRASHES

## DRIVER INVOLVEMENT BY CRASH SEVERITY

	FATAL	%	PERSONAL INJURY	%	PROPERTY DAMAGE	%	TOTAL	%
DRIVERLESS	0	0.0	0	0.0	0	0.0	0	0.0
KNOWN DRIVER INVOLVED	3	100.0	38	100.0	76	98.7	117	99.1
UNKNOWN DRIVER INVOLVED	0	0.0	0	0.0	1	1.3	1	0.9
<b>TOTAL</b>	<b>3</b>	<b>100.0</b>	<b>38</b>	<b>100.0</b>	<b>77</b>	<b>100.0</b>	<b>118</b>	<b>100.0</b>

TABLE 3.11.12

# DRIVERS OF VEHICLES CARRYING HAZARDOUS MATERIALS IN 2003 MISSOURI CRASHES

## SEX OF DRIVER BY CRASH SEVERITY

	FATAL	%	PERSONAL INJURY	%	PROPERTY DAMAGE	%	TOTAL	%
MALE	3	100.0	37	97.4	73	96.1	113	96.6
FEMALE	0	0.0	1	2.6	3	3.9	4	3.4
UNKNOWN	0	-	0	-	1	-	1	-
<b>TOTAL</b>	<b>3</b>	<b>100.0</b>	<b>38</b>	<b>100.0</b>	<b>77</b>	<b>100.0</b>	<b>118</b>	<b>100.0</b>

TABLE 3.11.13

**DRIVERS OF VEHICLES CARRYING HAZARDOUS MATERIALS IN 2003 MISSOURI CRASHES**

**AGE OF DRIVER BY CRASH SEVERITY**

	<b>FATAL</b>	<b>%</b>	<b>PERSONAL INJURY</b>	<b>%</b>	<b>PROPERTY DAMAGE</b>	<b>%</b>	<b>TOTAL</b>	<b>%</b>
<b>AVERAGE AGE OF DRIVER</b>	39.7	-	44.1	-	41.3	-	42.2	-
14 YEARS AND UNDER	0	0.0	0	0.0	0	0.0	0	0.0
15 - 20 YEARS	0	0.0	1	2.6	1	1.3	2	1.7
21 - 25 YEARS	0	0.0	1	2.6	5	6.7	6	5.2
26 - 30 YEARS	0	0.0	4	10.5	7	9.3	11	9.5
31 - 35 YEARS	2	66.7	6	15.8	13	17.3	21	18.1
36 - 40 YEARS	0	0.0	7	18.4	12	16.0	19	16.4
41 - 45 YEARS	0	0.0	4	10.5	11	14.7	15	12.9
46 - 50 YEARS	0	0.0	2	5.3	11	14.7	13	11.2
51 - 55 YEARS	1	33.3	3	7.9	6	8.0	10	8.6
56 - 60 YEARS	0	0.0	4	10.5	3	4.0	7	6.0
61 - 65 YEARS	0	0.0	3	7.9	3	4.0	6	5.2
66 YEARS AND OVER	0	0.0	3	7.9	3	4.0	6	5.2
UNKNOWN	0	-	0	-	2	-	2	-
<b>TOTAL</b>	3	100.0	38	100.0	77	100.0	118	100.0

**TABLE 3.11.14**

**DRIVERS OF VEHICLES CARRYING HAZARDOUS MATERIALS IN 2003 MISSOURI CRASHES**

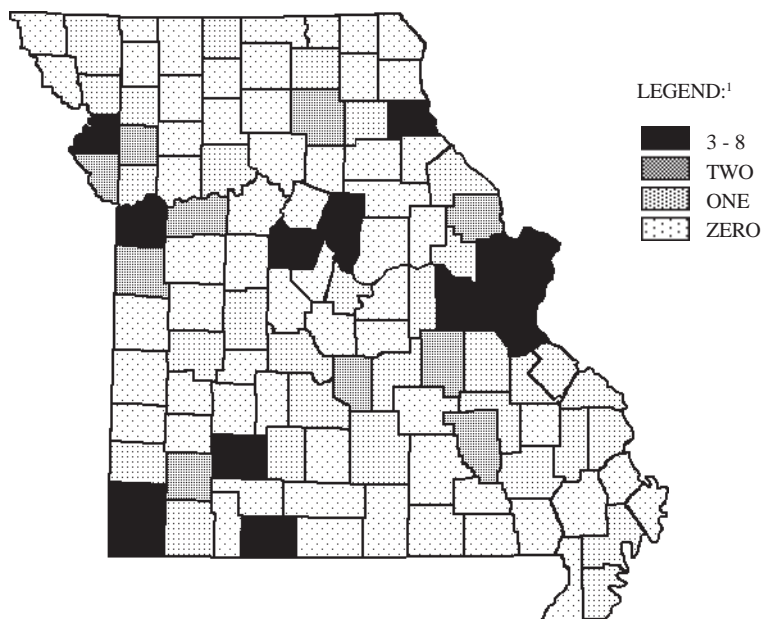
**DRIVER'S LICENSE STATE AND TYPE BY CRASH SEVERITY**

	<b>FATAL</b>	<b>%</b>	<b>PERSONAL INJURY</b>	<b>%</b>	<b>PROPERTY DAMAGE</b>	<b>%</b>	<b>TOTAL</b>	<b>%</b>
<b>MISSOURI</b>								
LEARNER'S PERMIT	0	0.0	0	0.0	0	0.0	0	0.0
OPERATOR'S LICENSE	0	0.0	3	7.9	8	10.5	11	9.4
MOTORCYCLE ONLY	0	0.0	0	0.0	0	0.0	0	0.0
COMMERCIAL DRIVER'S LICENSE	2	66.7	22	57.9	41	54.0	65	55.6
SUBTOTAL	2	66.7	25	65.8	49	64.5	76	65.0
<b>OUT STATE</b>								
LEARNER'S PERMIT	0	0.0	0	0.0	0	0.0	0	0.0
OPERATOR'S LICENSE	0	0.0	3	7.9	3	4.0	6	5.1
MOTORCYCLE ONLY	0	0.0	0	0.0	0	0.0	0	0.0
COMMERCIAL DRIVER'S LICENSE	1	33.3	10	26.3	24	31.6	35	29.9
SUBTOTAL	1	33.3	13	34.2	27	35.5	41	35.0
UNLICENSED	0	0.0	0	0.0	0	0.0	0	0.0
UNKNOWN	0	-	0	-	1	-	1	-
<b>TOTAL</b>	<b>3</b>	<b>100.0</b>	<b>38</b>	<b>100.0</b>	<b>77</b>	<b>100.0</b>	<b>118</b>	<b>100.0</b>

**TABLE 3.11.15**

## 2003 HAZARDOUS MATERIAL INVOLVED CRASHES

### COUNTY QUARTILE ANALYSIS



<sup>1</sup>LEGEND CATEGORIES ARE BASED ON QUARTILES OF COUNTIES.

RANK	COUNTY	FREQUENCY	PERCENT	RANK	COUNTY	FREQUENCY	PERCENT
1.5	JACKSON	8	6.9	19.5	LAWRENCE	2	1.7
1.5	ST. LOUIS	8	6.9	19.5	LINCOLN	2	1.7
3.5	GREENE	7	6.0	19.5	MACON	2	1.7
3.5	ST. LOUIS CITY	7	6.0	19.5	PLATTE	2	1.7
5.0	MARION	5	4.3	19.5	PULASKI	2	1.7
7.0	BUCHANAN	4	3.4	19.5	REYNOLDS	2	1.7
7.0	FRANKLIN	4	3.4	Second Quartile			
7.0	ST. CHARLES	4	3.4	Third Quartile			
11.5	BOONE	3	2.6	40.0	ADAIR	1	0.9
11.5	COOPER	3	2.6	40.0	ANDREW	1	0.9
11.5	JEFFERSON	3	2.6	40.0	BARRY	1	0.9
11.5	MCDONALD	3	2.6	40.0	BENTON	1	0.9
11.5	NEWTON	3	2.6	40.0	BOLLINGER	1	0.9
11.5	TANEY	3	2.6	40.0	BOLLINGER	1	0.9
First Quartile				40.0	CAMDEN	1	0.9
Second Quartile				40.0	CAPE GIRARDEAU	1	0.9
19.5	CASS	2	1.7	40.0	CARROLL	1	0.9
19.5	CLINTON	2	1.7	40.0	CLAY	1	0.9
19.5	CRAWFORD	2	1.7	40.0	COLE	1	0.9
19.5	LAFAYETTE	2	1.7	40.0	DE KALB	1	0.9
				40.0	GASCONADE	1	0.9

RANK	COUNTY	FREQUENCY	PERCENT	RANK	COUNTY	FREQUENCY	PERCENT
40.0	IRON	1	0.9	85.5	GRUNDY	0	0.0
40.0	JASPER	1	0.9	85.5	HARRISON	0	0.0
40.0	LACLEDE	1	0.9	85.5	HENRY	0	0.0
40.0	MERCER	1	0.9	85.5	HICKORY	0	0.0
40.0	NEW MADRID	1	0.9	85.5	HOLT	0	0.0
40.0	NODAWAY	1	0.9	85.5	HOWARD	0	0.0
40.0	PEMISCOT	1	0.9	85.5	HOWELL	0	0.0
40.0	PERRY	1	0.9	85.5	JOHNSON	0	0.0
40.0	PHELPS	1	0.9	85.5	KNOX	0	0.0
40.0	PIKE	1	0.9	85.5	LEWIS	0	0.0
40.0	ST. CLAIR	1	0.9	85.5	LINN	0	0.0
40.0	ST. FRANCOIS	1	0.9	85.5	LIVINGSTON	0	0.0
40.0	STE. GENEVIEVE	1	0.9	85.5	MADISON	0	0.0
40.0	SHELBY	1	0.9	85.5	MARIES	0	0.0
40.0	TEXAS	1	0.9	85.5	MILLER	0	0.0
40.0	WARREN	1	0.9	85.5	MISSISSIPPI	0	0.0
40.0	WASHINGTON	1	0.9	85.5	MONITEAU	0	0.0
40.0	WAYNE	1	0.9	85.5	MONROE	0	0.0
40.0	WEBSTER	1	0.9	85.5	MONTGOMERY	0	0.0
Third Quartile				85.5	MORGAN	0	0.0
Fourth Quartile				85.5	OREGON	0	0.0
85.5	ATCHISON	0	0.0	85.5	OSAGE	0	0.0
85.5	AUDRAIN	0	0.0	85.5	OZARK	0	0.0
85.5	BARTON	0	0.0	85.5	PETTIS	0	0.0
85.5	BATES	0	0.0	85.5	POLK	0	0.0
85.5	BUTLER	0	0.0	85.5	PUTNAM	0	0.0
85.5	CALDWELL	0	0.0	85.5	RALLS	0	0.0
85.5	CALLAWAY	0	0.0	85.5	RANDOLPH	0	0.0
85.5	CARTER	0	0.0	85.5	RAY	0	0.0
85.5	CEDAR	0	0.0	85.5	RIPLEY	0	0.0
85.5	CHARITON	0	0.0	85.5	SALINE	0	0.0
85.5	CHRISTIAN	0	0.0	85.5	SCHUYLER	0	0.0
85.5	CLARK	0	0.0	85.5	SCOTLAND	0	0.0
85.5	DADE	0	0.0	85.5	SCOTT	0	0.0
85.5	DALLAS	0	0.0	85.5	SHANNON	0	0.0
85.5	DAVIESS	0	0.0	85.5	STODDARD	0	0.0
85.5	DENT	0	0.0	85.5	STONE	0	0.0
85.5	DOUGLAS	0	0.0	85.5	SULLIVAN	0	0.0
85.5	DUNKLIN	0	0.0	85.5	VERNON	0	0.0
85.5	GENTRY	0	0.0	85.5	WORTH	0	0.0
				85.5	WRIGHT	0	0.0

TABLE 3.11.16



## 2003 HAZARDOUS MATERIAL INVOLVED CRASHES

### CITY LISTING

RANK	CITY	FREQUENCY	PERCENT <sup>1</sup>
1.5	KANSAS CITY	7	12.7
1.5	ST. LOUIS	7	12.7
3.0	SPRINGFIELD	4	7.3
5.0	ARNOLD	2	3.6
5.0	JOPLIN	2	3.6
5.0	WENTZVILLE	2	3.6
22.0	CAPE GIRARDEAU	1	1.8
22.0	COLUMBIA	1	1.8
22.0	CREVE COEUR	1	1.8
22.0	GRANDVIEW	1	1.8
22.0	HANNIBAL	1	1.8
22.0	HARRISONVILLE	1	1.8
22.0	HAZELWOOD	1	1.8
22.0	HIGGINSVILLE	1	1.8
22.0	JEFFERSON CITY	1	1.8
22.0	KIRKWOOD	1	1.8
22.0	LEBANON	1	1.8
22.0	LEE'S SUMMIT	1	1.8
22.0	MACON	1	1.8
22.0	MANCHESTER	1	1.8
22.0	MARYLAND HEIGHTS	1	1.8
22.0	NEOSHO	1	1.8
22.0	ODESSA	1	1.8
22.0	O'FALLON	1	1.8
22.0	OSAGE BEACH	1	1.8
22.0	OVERLAND	1	1.8
22.0	PACIFIC	1	1.8
22.0	PALMYRA	1	1.8
22.0	PERRYVILLE	1	1.8
22.0	PEVELY	1	1.8
22.0	PRINCETON	1	1.8
22.0	RIVERSIDE	1	1.8
22.0	ST. CHARLES	1	1.8
22.0	ST. CLAIR	1	1.8
22.0	ST. JOSEPH	1	1.8
22.0	TOWN AND COUNTRY	1	1.8
22.0	WAYNESVILLE	1	1.8

<sup>1</sup>Percentage is based on hazardous material involved crashes which occurred in Missouri municipalities with populations of 1,000 or more. Only those municipalities comprising 1.0% or more of these crashes are listed.

**TABLE 3.11.17**

### 3.12 CONSTRUCTION / OTHER WORK ZONE INVOLVEMENT

This section presents a series of data displays which identify construction / other work zone involvement in Missouri's traffic crash experience. Construction / other work zone crashes are defined as any traffic crash where one or more of the traffic controls associated with the incident was a construction or other work zone. Data displays are provided which describe characteristics of the incidents as well as all vehicles and drivers directly associated with the traffic crashes.

#### 2003 SUMMARY ANALYSIS

- Of all 2003 Missouri traffic crashes, 2.4% involved construction / other work zones. Of all fatal traffic crashes, 1.9% were construction / other work zone related. A total of 23 persons were killed and 1,559 were injured in traffic crashes involving construction / other work zones.
- In 2003, one person was killed or injured in construction / other work zone involved traffic crashes every 5.5 hours in the State of Missouri.
- Of all 2003 construction / other work zone traffic crashes, the first harmful event in 76.9% of the cases involved one motor vehicle in transport striking another motor vehicle in transport. In 13.3% of the cases, the first harmful event was a motor vehicle in transport striking a fixed object.
- Of all 2003 construction / other work zone traffic crashes, 68.9% occurred in urban areas and 31.1% occurred in rural areas of the State.
- Of all 2003 construction / other work zone traffic crashes, 42.4% occurred on an interstate highway.
- Of all vehicles in construction / other work zone traffic crashes, 51.4% were automobiles, 16.0% were pickup trucks, and 11.6% were other types of trucks.
- Of the drivers in 2003 construction / other work zone related traffic crashes, 61.8% were male and 38.2% were female. The average age of the driver was 38.9 years.
- Of the drivers, 78.7% had a Missouri driver's license, 19.8% had an out-of-state driver's license, and 1.4% were unlicensed at the time of the crash.

**2003 MISSOURI TRAFFIC CRASHES**

**CONSTRUCTION / OTHER WORK ZONE INVOLVEMENT**

	<b>FATAL</b>	<b>%</b>	<b>PERSONAL INJURY</b>	<b>%</b>	<b>PROPERTY DAMAGE</b>	<b>%</b>	<b>TOTAL</b>	<b>%</b>	<b>TOTAL NUMBER<sup>1</sup> KILLED INJURED</b>
CONSTRUCTION ZONE INVOLVED	21	1.9	1,013	2.2	3,436	2.5	4,470	2.4	23 1,559
NO CONSTRUCTION ZONE INVOLVED / UNKNOWN <sup>2</sup>	1,074	98.1	44,953	97.8	132,127	97.5	178,154	97.6	1,209 67,562
<b>TOTAL</b>	<b>1,095</b>	<b>100.0</b>	<b>45,966</b>	<b>100.0</b>	<b>135,563</b>	<b>100.0</b>	<b>182,624</b>	<b>100.0</b>	<b>1,232 69,121</b>

<sup>1</sup>This statistic indicates the total number of persons killed and injured in a crash where a construction / other work zone was involved.

<sup>2</sup>Crashes were classified this way if construction or other work zone was not marked in the traffic control zone field of the crash report.

**TABLE 3.12.1**

### 2002 and 2003 CONSTRUCTION / OTHER WORK ZONE INVOLVED CRASH ANALYSIS

	2002	2003	RATE OF CHANGE
FATAL	26	21	- 19.2
PERSONAL INJURY	1,089	1,013	- 7.0
PROPERTY DAMAGE	3,723	3,436	- 7.7
TOTAL	4,838	4,470	- 7.6

**TABLE 3.12.2**

### 2003 CONSTRUCTION / OTHER WORK ZONE INVOLVED CRASHES

#### TRAFFIC CONTROL BY CRASH SEVERITY

	FATAL	%	PERSONAL INJURY	%	PROPERTY DAMAGE	%	TOTAL	%
CONSTRUCTION ZONE	20	95.2	923	91.1	3,141	91.4	4,084	91.4
OTHER WORK ZONE	1	4.8	90	8.9	295	8.6	386	8.6
<b>TOTAL</b>	21	100.0	1,013	100.0	3,436	100.0	4,470	100.0

**TABLE 3.12.3**

**2003 CONSTRUCTION / OTHER WORK ZONE INVOLVED CRASHES**

**CRASH TYPE BY CRASH SEVERITY**

	<b>FATAL</b>	<b>%</b>	<b>PERSONAL INJURY</b>	<b>%</b>	<b>PROPERTY DAMAGE</b>	<b>%</b>	<b>TOTAL</b>	<b>%</b>
ANIMAL	0	0.0	5	0.5	22	0.6	27	0.6
BICYCLIST	0	0.0	5	0.5	0	0.0	5	0.1
FIXED OBJECT	3	14.3	152	15.0	440	12.8	595	13.3
OTHER OBJECT	3	14.3	21	2.1	130	3.8	154	3.5
PEDESTRIAN	2	9.5	24	2.4	1	0.0	27	0.6
TRAIN	0	0.0	0	0.0	0	0.0	0	0.0
VEHICLE IN TRANSPORT	12	57.1	749	73.9	2,674	77.8	3,435	76.9
VEHICLE ON OTHER ROADWAY	0	0.0	1	0.1	7	0.2	8	0.2
PARKED VEHICLE	0	0.0	8	0.8	98	2.9	106	2.4
NONCOLLISION OVERTURN	1	4.8	39	3.9	27	0.8	67	1.5
NONCOLLISION OTHER	0	0.0	9	0.9	37	1.1	46	1.0
<b>TOTAL</b>	21	100.0	1,013	100.0	3,436	100.0	4,470	100.0

**TABLE 3.12.4**

**2003 CONSTRUCTION / OTHER WORK ZONE INVOLVED CRASHES**

**AREA CLASSIFICATION BY CRASH SEVERITY**

	<b>FATAL</b>	<b>%</b>	<b>PERSONAL INJURY</b>	<b>%</b>	<b>PROPERTY DAMAGE</b>	<b>%</b>	<b>TOTAL</b>	<b>%</b>
URBAN	10	47.6	691	68.2	2,377	69.2	3,078	68.9
RURAL	11	52.4	322	31.8	1,059	30.8	1,392	31.1
<b>TOTAL</b>	21	100.0	1,013	100.0	3,436	100.0	4,470	100.0

**TABLE 3.12.5**

**2003 CONSTRUCTION / OTHER WORK ZONE INVOLVED CRASHES**

**ROAD CURVATURE BY CRASH SEVERITY**

	<b>FATAL</b>	<b>%</b>	<b>PERSONAL INJURY</b>	<b>%</b>	<b>PROPERTY DAMAGE</b>	<b>%</b>	<b>TOTAL</b>	<b>%</b>
STRAIGHT	17	81.0	840	83.8	2,766	85.1	3,623	84.8
CURVE	4	19.1	163	16.2	484	14.9	651	15.2
UNKNOWN	0	-	10	-	186	-	196	-
<b>TOTAL</b>	<b>21</b>	<b>100.0</b>	<b>1,013</b>	<b>100.0</b>	<b>3,436</b>	<b>100.0</b>	<b>4,470</b>	<b>100.0</b>

**TABLE 3.12.6**

**2003 CONSTRUCTION / OTHER WORK ZONE INVOLVED CRASHES**

**ROAD INCLINE BY CRASH SEVERITY**

	<b>FATAL</b>	<b>%</b>	<b>PERSONAL INJURY</b>	<b>%</b>	<b>PROPERTY DAMAGE</b>	<b>%</b>	<b>TOTAL</b>	<b>%</b>
LEVEL	7	33.3	704	70.5	2,337	72.4	3,048	71.8
HILL	13	61.9	270	27.0	836	25.9	1,119	26.3
CREST	1	4.8	25	2.5	54	1.7	80	1.9
UNKNOWN	0	-	14	-	209	-	223	-
<b>TOTAL</b>	<b>21</b>	<b>100.0</b>	<b>1,013</b>	<b>100.0</b>	<b>3,436</b>	<b>100.0</b>	<b>4,470</b>	<b>100.0</b>

**TABLE 3.12.7**

## 2003 CONSTRUCTION / OTHER WORK ZONE INVOLVED CRASHES

### ROAD CONDITIONS BY CRASH SEVERITY

	FATAL	%	PERSONAL INJURY	%	PROPERTY DAMAGE	%	TOTAL	%
DRY	17	85.0	855	85.0	2,874	84.4	3,746	84.5
WET	3	15.0	132	13.1	470	13.8	605	13.7
SNOW	0	0.0	10	1.0	39	1.2	49	1.1
ICE	0	0.0	8	0.8	17	0.5	25	0.6
SLUSH	0	0.0	1	0.1	1	0.0	2	0.1
MUD	0	0.0	0	0.0	1	0.0	1	0.0
STANDING WATER	0	0.0	0	0.0	3	0.1	3	0.1
MOVING WATER	0	0.0	0	0.0	0	0.0	0	0.0
UNKNOWN	1	-	7	-	31	-	39	-
<b>TOTAL</b>	21	100.0	1,013	100.0	3,436	100.0	4,470	100.0

**TABLE 3.12.8**

## 2003 CONSTRUCTION / OTHER WORK ZONE INVOLVED CRASHES

### HIGHWAY CLASSIFICATION BY CRASH SEVERITY

	FATAL	%	PERSONAL INJURY	%	PROPERTY DAMAGE	%	TOTAL	%
INTERSTATE	11	52.4	465	45.9	1,417	41.2	1,893	42.4
U.S. HIGHWAY	4	19.1	149	14.7	405	11.8	558	12.5
STATE NUMBERED	4	19.1	171	16.9	558	16.2	733	16.4
SINGLE STATE LETTERED	1	4.8	32	3.2	92	2.7	125	2.8
DOUBLE STATE LETTERED	0	0.0	9	0.9	21	0.6	30	0.7
OUTER ROAD	0	0.0	9	0.9	21	0.6	30	0.7
COUNTY ROAD	1	4.8	47	4.6	177	5.2	225	5.0
CITY STREET	0	0.0	112	11.1	675	19.6	787	17.6
INTERSTATE LOOP	0	0.0	5	0.5	13	0.4	18	0.4
OTHER <sup>1</sup>	0	0.0	14	1.4	57	1.7	71	1.6
<b>TOTAL</b>	21	100.0	1,013	100.0	3,436	100.0	4,470	100.0

<sup>1</sup> "Other" includes types of roads that are maintained by the State as well as by local jurisdictions.

**TABLE 3.12.9**

**2003 MISSOURI CONSTRUCTION / OTHER WORK ZONE INVOLVED CRASHES  
MONTH OF YEAR**

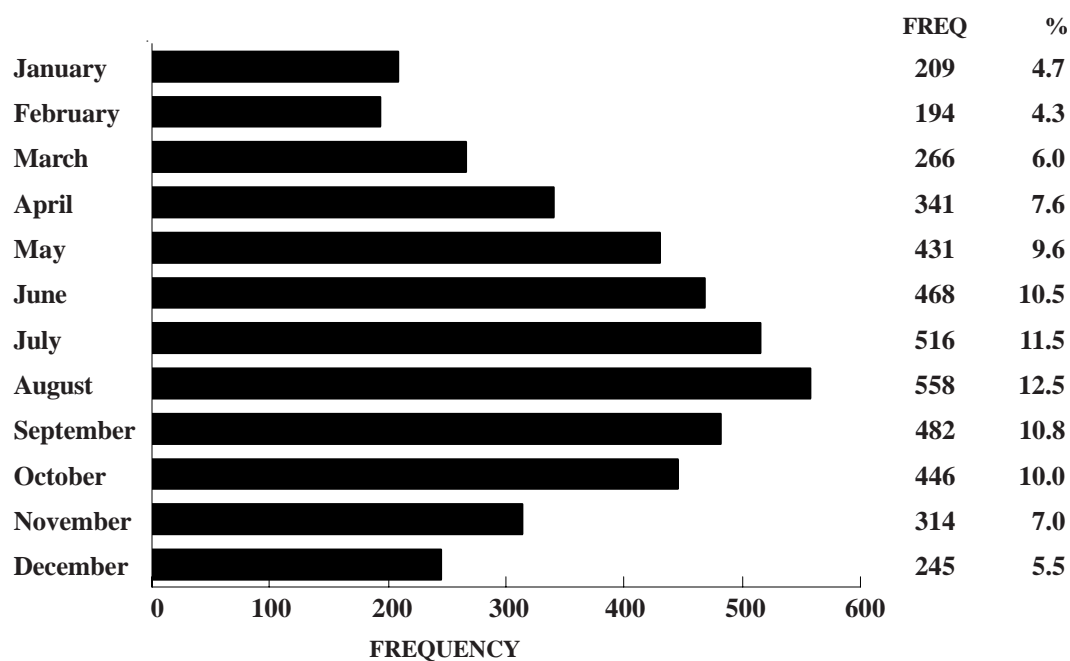
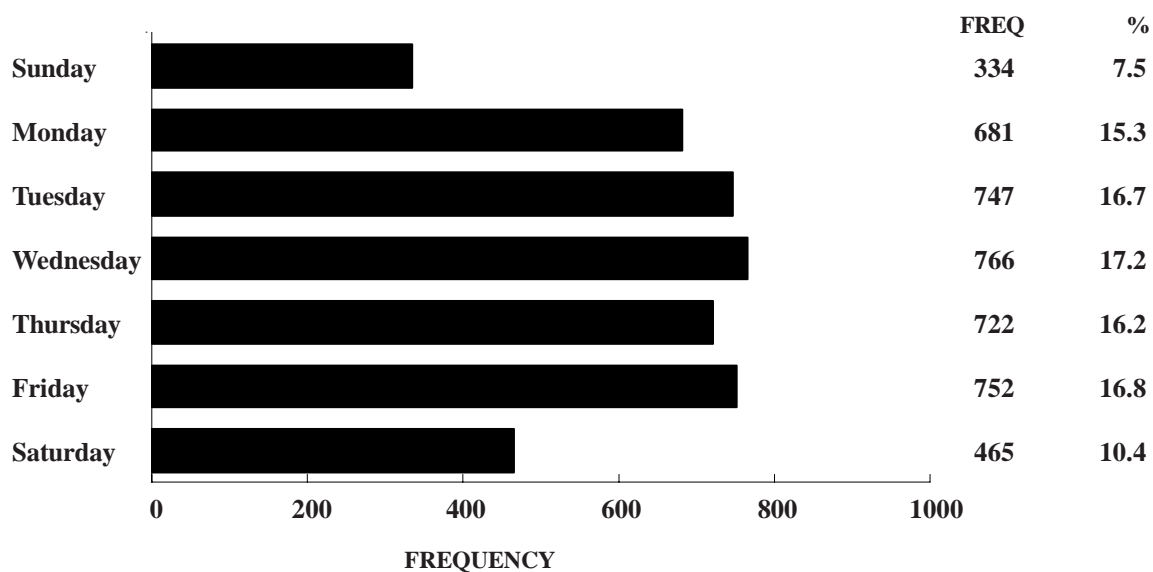


FIGURE 3.12.1

**2003 MISSOURI CONSTRUCTION / OTHER WORK ZONE INVOLVED CRASHES  
DAY OF WEEK**

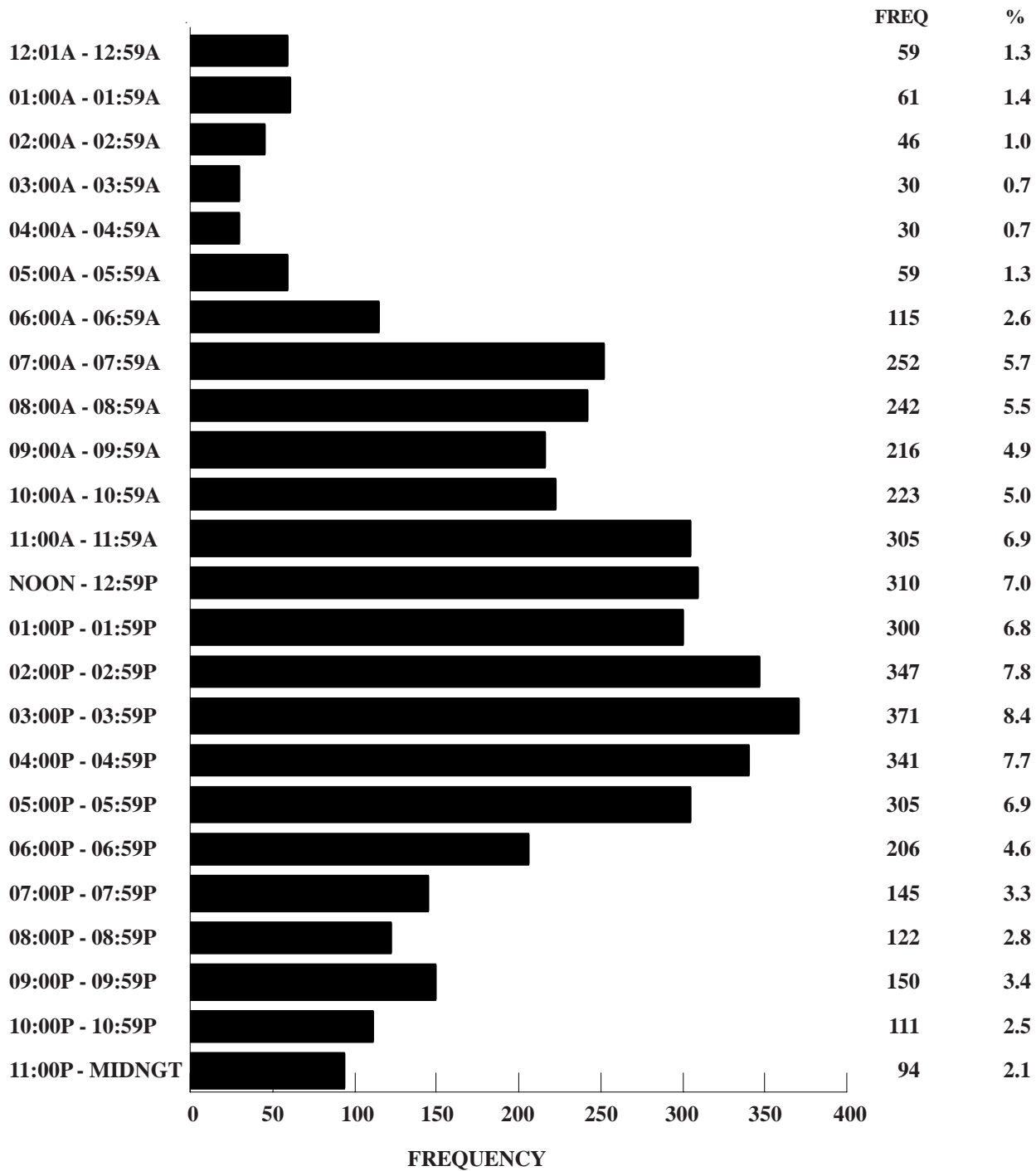


Unknown Data Not Included

FIGURE 3.12.2



**2003 MISSOURI CONSTRUCTION / OTHER WORK ZONE INVOLVED CRASHES  
HOUR OF DAY**



**FIGURE 3.12.3**

**VEHICLES IN 2003 MISSOURI CONSTRUCTION / OTHER WORK ZONE CRASHES**

**TYPE OF VEHICLE BY CRASH SEVERITY**

	<b>FATAL</b>	<b>%</b>	<b>PERSONAL INJURY</b>	<b>%</b>	<b>PROPERTY DAMAGE</b>	<b>%</b>	<b>TOTAL</b>	<b>%</b>
AUTOMOBILE	14	34.2	1,115	52.7	3,382	51.1	4,511	51.4
SPORT UTILITY VEHICLE	5	12.2	252	11.9	704	10.6	961	11.0
LIMOUSINE	0	0.0	0	0.0	2	0.0	2	0.0
VAN	1	2.4	137	6.5	531	8.0	669	7.6
BUS	0	0.0	4	0.2	33	0.5	37	0.4
SCHOOL BUS	2	4.9	6	0.3	21	0.3	29	0.3
MOTORCYCLE	4	9.8	40	1.9	7	0.1	51	0.6
MOPED	0	0.0	0	0.0	0	0.0	0	0.0
BICYCLE	0	0.0	5	0.2	0	0.0	5	0.1
MOTOR HOME / CAMPER	0	0.0	0	0.0	17	0.3	17	0.2
FARM EQUIPMENT	0	0.0	0	0.0	4	0.1	4	0.1
CONSTRUCTION EQUIPMENT	1	2.4	13	0.6	38	0.6	52	0.6
OTHER TRANSPORT DEVICE	0	0.0	1	0.1	14	0.2	15	0.2
PICKUP TRUCK	4	9.8	339	16.0	1,064	16.1	1,407	16.0
OTHER TRUCKS	10	24.4	205	9.7	802	12.1	1,017	11.6
ALL TERRAIN VEHICLE	0	0.0	0	0.0	1	0.0	1	0.0
VEHICLE TYPE UNKNOWN	1	-	10	-	64	-	75	-
<b>TOTAL</b>	<b>42</b>	<b>100.0</b>	<b>2,127</b>	<b>100.0</b>	<b>6,684</b>	<b>100.0</b>	<b>8,853</b>	<b>100.0</b>

**TABLE 3.12.10**

## 2003 MISSOURI CONSTRUCTION / OTHER WORK ZONE CRASHES

### TYPE OF CIRCUMSTANCE INVOLVED BY CRASH SEVERITY<sup>1</sup>

FATAL CONSTRUCTION / OTHER WORK ZONE CRASHES = 21		TOTAL CONSTRUCTION / OTHER WORK ZONE CRASHES = 4,470
VEHICLE DEFECTS	0.0	2.3
TRAFFIC CONTROL IN OPERATIVE / MISSING	0.0	0.3
IMPROPERLY STOPPED ON ROADWAY	4.8	0.8
EXCEEDING SPEED LIMIT / TOO FAST FOR CONDITIONS	47.6	17.7
IMPROPER PASSING	0.0	2.6
VIOLATION OF STOP SIGN	0.0	2.2
WRONG SIDE NOT PASSING	9.5	0.7
FOLLOWING TOO CLOSE	4.8	24.5
IMPROPER SIGNAL	0.0	0.0
IMPROPER BACKING	4.8	1.6
IMPROPER TURN	0.0	2.1
IMPROPER LANE USAGE / CHANGE	14.3	14.3
WRONG WAY ONE-WAY STREET	4.8	0.2
IMPROPER START FROM PARK	0.0	0.2
IMPROPERLY PARKED	0.0	0.4
FAILED TO YIELD	4.8	12.5
DRINKING	14.3	3.2
DRUGS	0.0	0.3
PHYSICAL IMPAIRMENT	4.8	1.2
INATTENTION	42.9	30.3

<sup>1</sup>This table identifies the percentage of construction / other work zone crashes having a specific type of circumstance which contributed to the cause of the crash. For instance, when examining drinking involvement in 2003 Missouri fatal construction / other work zone crashes, it was found that in 14.3% of the crashes one or more drivers were drinking. In all construction / other work zone traffic crashes, 3.2% had one or more drivers who were drinking.

**TABLE 3.12.11**

# VEHICLES IN 2003 MISSOURI CONSTRUCTION / OTHER WORK ZONE CRASHES

## DRIVER INVOLVEMENT BY CRASH SEVERITY

	FATAL	%	PERSONAL INJURY	%	PROPERTY DAMAGE	%	TOTAL	%
DRIVERLESS	0	0.0	20	0.9	124	1.9	144	1.6
KNOWN DRIVER INVOLVED	41	97.6	2,063	97.0	6,196	92.7	8,300	93.8
UNKNOWN DRIVER INVOLVED	1	2.4	44	2.1	364	5.4	409	4.6
<b>TOTAL</b>	42	100.0	2,127	100.0	6,684	100.0	8,853	100.0

**TABLE 3.12.12**

# DRIVERS OF VEHICLES IN 2003 MISSOURI CONSTRUCTION / OTHER WORK ZONE CRASHES

## SEX OF DRIVER BY CRASH SEVERITY

	FATAL	%	PERSONAL INJURY	%	PROPERTY DAMAGE	%	TOTAL	%
MALE	37	90.2	1,248	60.5	3,704	62.0	4,989	61.8
FEMALE	4	9.8	815	39.5	2,272	38.0	3,091	38.2
UNKNOWN	1	-	44	-	584	-	629	-
<b>TOTAL</b>	42	100.0	2,107	100.0	6,560	100.0	8,709	100.0

**TABLE 3.12.13**

**DRIVERS OF VEHICLES IN 2003 MISSOURI CONSTRUCTION / OTHER WORK ZONE CRASHES**

**AGE OF DRIVER BY CRASH SEVERITY**

	<b>FATAL</b>	<b>%</b>	<b>PERSONAL INJURY</b>	<b>%</b>	<b>PROPERTY DAMAGE</b>	<b>%</b>	<b>TOTAL</b>	<b>%</b>
<b>AVERAGE AGE OF DRIVER</b>	46.0	-	38.8	-	38.9	-	38.9	-
14 YEARS AND UNDER	0	0.0	0	0.0	1	0.0	1	0.0
15 - 20 YEARS	4	9.8	271	13.4	804	13.3	1,079	13.3
21 - 25 YEARS	4	9.8	246	12.1	742	12.3	992	12.2
26 - 30 YEARS	3	7.3	217	10.7	613	10.1	833	10.3
31 - 35 YEARS	2	4.9	210	10.3	636	10.5	848	10.5
36 - 40 YEARS	2	4.9	198	9.8	619	10.2	819	10.1
41 - 45 YEARS	4	9.8	224	11.0	702	11.6	930	11.5
46 - 50 YEARS	7	17.1	197	9.7	533	8.8	737	9.1
51 - 55 YEARS	3	7.3	155	7.6	461	7.6	619	7.6
56 - 60 YEARS	2	4.9	116	5.7	307	5.1	425	5.2
61 - 65 YEARS	1	2.4	72	3.6	210	3.5	283	3.5
66 YEARS AND OVER	9	22.0	124	6.1	418	6.9	551	6.8
UNKNOWN	1	-	77	-	514	-	592	-
<b>TOTAL</b>	42	100.0	2,107	100.0	6,560	100.0	8,709	100.0

**TABLE 3.12.14**

**DRIVERS OF VEHICLES IN 2003 MISSOURI CONSTRUCTION / OTHER WORK ZONE CRASHES**

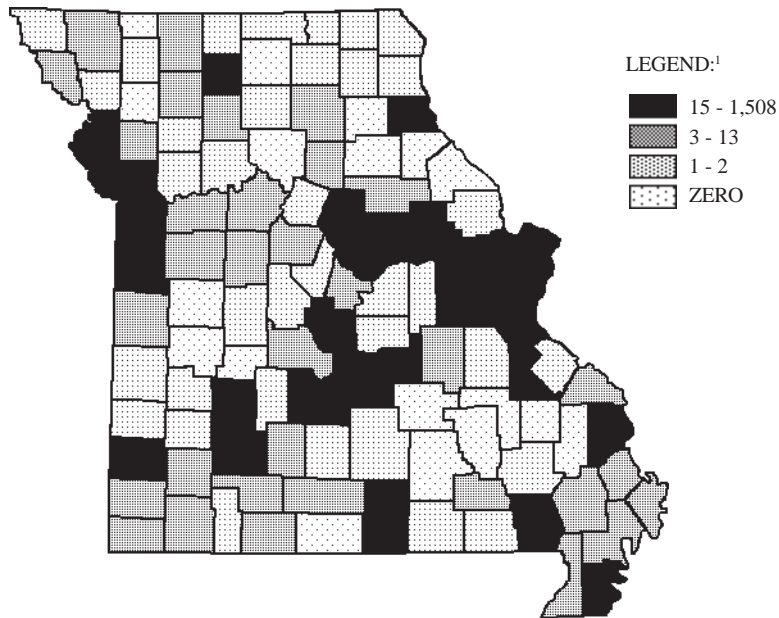
**DRIVER'S LICENSE STATE AND TYPE BY CRASH SEVERITY**

	<b>FATAL</b>	<b>%</b>	<b>PERSONAL INJURY</b>	<b>%</b>	<b>PROPERTY DAMAGE</b>	<b>%</b>	<b>TOTAL</b>	<b>%</b>
<b>MISSOURI</b>								
LEARNER'S PERMIT	0	0.0	9	0.4	12	0.2	21	0.3
OPERATOR'S LICENSE	21	52.5	1,423	70.3	4,003	69.4	5,447	69.5
MOTORCYCLE ONLY	0	0.0	1	0.1	0	0.0	1	0.0
COMMERCIAL DRIVER'S LICENSE	7	17.5	178	8.8	515	8.9	700	8.9
SUBTOTAL	28	70.0	1,611	79.6	4,530	78.5	6,169	78.7
<b>OUT STATE</b>								
LEARNER'S PERMIT	0	0.0	1	0.1	1	0.0	2	0.0
OPERATOR'S LICENSE	7	17.5	291	14.4	828	14.4	1,126	14.4
MOTORCYCLE ONLY	0	0.0	0	0.0	0	0.0	0	0.0
COMMERCIAL DRIVER'S LICENSE	2	5.0	83	4.1	341	5.9	426	5.4
SUBTOTAL	9	22.5	375	18.5	1,170	20.3	1,554	19.8
UNLICENSED	3	7.5	38	1.9	70	1.2	111	1.4
UNKNOWN	2	-	83	-	790	-	875	-
<b>TOTAL</b>	<b>42</b>	<b>100.0</b>	<b>2,107</b>	<b>100.0</b>	<b>6,560</b>	<b>100.0</b>	<b>8,709</b>	<b>100.0</b>

**TABLE 3.12.15**

## 2003 CONSTRUCTION / OTHER WORK ZONE INVOLVED CRASHES

### COUNTY QUARTILE ANALYSIS



<sup>1</sup>LEGEND CATEGORIES ARE BASED ON QUARTILES OF COUNTIES.

RANK	COUNTY	FREQUENCY	PERCENT	RANK	COUNTY	FREQUENCY	PERCENT
1.0	ST. LOUIS	1,508	33.7	23.0	BUTLER	21	0.5
2.0	JACKSON	1,021	22.8	23.0	LACLEDE	21	0.5
3.0	ST. CHARLES	411	9.2	23.0	PULASKI	21	0.5
4.0	ST. LOUIS CITY	187	4.2	26.0	BUCHANAN	19	0.4
5.0	CLAY	158	3.5	26.0	MILLER	19	0.4
6.0	CASS	124	2.8	26.0	MONTGOMERY	19	0.4
7.0	JASPER	108	2.4	28.0	PEMISCOT	15	0.3
8.0	JEFFERSON	91	2.0	First Quartile			
9.0	PLATTE	84	1.9	Second Quartile			
10.0	FRANKLIN	74	1.7	29.5	CAMDEN	13	0.3
11.0	GREENE	41	0.9	29.5	COOPER	13	0.3
12.0	WARREN	36	0.8	31.0	NEWTON	12	0.3
13.0	BOONE	34	0.8	33.0	COLE	11	0.2
14.0	POLK	30	0.7	33.0	LIVINGSTON	11	0.2
15.5	PHELPS	28	0.6	33.0	SCOTT	11	0.2
15.5	ST. FRANCOIS	28	0.6	35.0	BARRY	10	0.2
18.0	CAPE GIRARDEAU	25	0.6	36.5	MACON	9	0.2
18.0	GRUNDY	25	0.6	36.5	PERRY	9	0.2
18.0	HOWELL	25	0.6	40.0	CARTER	6	0.1
20.0	CALLAWAY	24	0.5	40.0	HOLT	6	0.1
21.0	MARION	23	0.5				

RANK	COUNTY	FREQUENCY	PERCENT	RANK	COUNTY	FREQUENCY	PERCENT
40.0	NEW MADRID	6	0.1	87.0	ATCHISON	1	0.0
40.0	NODAWAY	6	0.1	87.0	BARTON	1	0.0
40.0	PETTIS	6	0.1	87.0	BENTON	1	0.0
45.0	CHRISTIAN	5	0.1	87.0	CALDWELL	1	0.0
45.0	CRAWFORD	5	0.1	87.0	CLARK	1	0.0
45.0	MC DONALD	5	0.1	87.0	DADE	1	0.0
45.0	MISSISSIPPI	5	0.1	87.0	DALLAS	1	0.0
45.0	SALINE	5	0.1	87.0	GASCONADE	1	0.0
49.0	AUDRAIN	4	0.1	87.0	HOWARD	1	0.0
49.0	LAWRENCE	4	0.1	87.0	KNOX	1	0.0
49.0	TANEY	4	0.1	87.0	LINN	1	0.0
56.0	BATES	3	0.1	87.0	MARIES	1	0.0
56.0	CLINTON	3	0.1	87.0	OREGON	1	0.0
56.0	DAVIESS	3	0.1	87.0	RAY	1	0.0
56.0	DOUGLAS	3	0.1	87.0	RIPLEY	1	0.0
56.0	DUNKLIN	3	0.1	87.0	SCOTLAND	1	0.0
56.0	HARRISON	3	0.1	87.0	STONE	1	0.0
56.0	JOHNSON	3	0.1	87.0	WASHINGTON	1	0.0
56.0	LAFAYETTE	3	0.1	87.0	WAYNE	1	0.0
56.0	RANDOLPH	3	0.1	87.0	WRIGHT	1	0.0
56.0	STODDARD	3	0.1				
56.0	WEBSTER	3	0.1				
Second Quartile				Third Quartile			
69.0	ADAIR	2	0.0	106.5	BOLLINGER	0	0.0
69.0	CARROLL	2	0.0	106.5	CHARITON	0	0.0
69.0	CEDAR	2	0.0	106.5	DE KALB	0	0.0
69.0	GENTRY	2	0.0	106.5	DENT	0	0.0
69.0	LEWIS	2	0.0	106.5	HENRY	0	0.0
69.0	LINCOLN	2	0.0	106.5	HICKORY	0	0.0
69.0	MERCER	2	0.0	106.5	IRON	0	0.0
69.0	MONITEAU	2	0.0	106.5	MADISON	0	0.0
69.0	MORGAN	2	0.0	106.5	MONROE	0	0.0
69.0	OSAGE	2	0.0	106.5	OZARK	0	0.0
69.0	PUTNAM	2	0.0	106.5	PIKE	0	0.0
69.0	STE. GENEVIEVE	2	0.0	106.5	RALLS	0	0.0
69.0	SCHUYLER	2	0.0	106.5	REYNOLDS	0	0.0
69.0	TEXAS	2	0.0	106.5	ST. CLAIR	0	0.0
69.0	VERNON	2	0.0	106.5	SHANNON	0	0.0
87.0	ANDREW	1	0.0	106.5	SHELBY	0	0.0
				106.5	SULLIVAN	0	0.0
				106.5	WORTH	0	0.0
Fourth Quartile							

TABLE 3.12.16



## 2003 CONSTRUCTION / OTHER WORK ZONE INVOLVED CRASHES

### CITY LISTING

RANK	CITY	FREQUENCY	PERCENT <sup>1</sup>
1.0	KANSAS CITY	872	25.9
2.0	CREVE COEUR	192	5.7
3.0	HAZELWOOD	189	5.6
4.0	ST. LOUIS	187	5.6
5.0	LEE'S SUMMIT	138	4.1
6.5	BERKELEY	97	2.9
6.5	FLORISSANT	97	2.9
8.5	BRIDGETON	79	2.3
8.5	ST. PETERS	79	2.3
10.0	EUREKA	72	2.1
11.0	HARRISONVILLE	54	1.6
12.0	ST. CHARLES	52	1.5
13.0	O'FALLON	48	1.4
14.0	WENTZVILLE	47	1.4
15.5	BELTON	45	1.3
15.5	COOL VALLEY	45	1.3
17.0	MARYLAND HEIGHTS	43	1.3
18.0	LAKE ST. LOUIS	39	1.2
19.0	NORMANDY	36	1.1
20.5	JOPLIN	33	1.0
20.5	LIBERTY	33	1.0
22.0	SPRINGFIELD	32	1.0

<sup>1</sup>Percentage is based on construction / other work zone involved crashes which occurred in Missouri municipalities with populations of 1,000 or more. Only those municipalities comprising 1.0% or more of these crashes are listed.

**TABLE 3.12.17**

### 3.13 SEAT BELT USAGE

***This section presents a series of data displays identifying the seat belt usage rates of drivers and injured passengers in automobiles, trucks, vans, and motor homes in Missouri traffic crashes. Most of the data displays focus on only the driver. Data on the seat belt usage rates of both injured and uninjured drivers were available for analysis. In the case of passengers, data were only available for those injured in the traffic crash. Injured passenger seat belt usage rates are not indicative of seat belt usage rates of all passengers in traffic crashes.***

***There are other limitations to the data presented in this section. In a large number of cases, driver and injured passenger seat belt usage information was not reported by the investigating officer. In the following data displays, the number of cases where seat belt usage information was not known is presented but excluded when calculating seat belt usage rates (Row %).***

***In addition, in cases where the investigating officer does report driver and injured passenger seat belt use, the officer is relying on the word of the person in most instances.***

***As a result of these limiting factors, it is expected that the actual seat belt usage rates in Missouri's 2003 traffic crashes are somewhat less than the findings in this section would indicate. These limiting factors should be taken into consideration when viewing these statistics.***

#### 2003 SUMMARY ANALYSIS

- Of the drivers of automobiles, trucks, vans, and motor homes killed in 2003 Missouri traffic crashes, 31.6% were wearing seat belts. Of the passengers killed in these types of vehicles, 31.4% wore their seat belt. For drivers involved in traffic crashes not killed or injured, 94.8% were wearing their seat belt at the time of the crash.
- A driver in a 2003 Missouri traffic crash had a 1 in 3 chance of being injured if they were not wearing their seat belt. However, if they were wearing a seat belt their chances of being injured in the crash were 1 in 7. When examining driver deaths, the differences are much more dramatic. A driver in a 2003 Missouri traffic crash had a 1 in 39 chance of being killed if they were not wearing a seat belt. In those cases where a driver wore a seat belt, their chance of being killed was 1 in 1,108.
- Of those drivers totally ejected from their vehicle, 6.3% were wearing their seat belts. Of those partially ejected, 61.0% were wearing seat belts. Of those not ejected, 93.0% were wearing seat belts.
- Of Missouri licensed drivers in 2003 traffic crashes, 92.9% were wearing seat belts compared to 95.7% of drivers licensed in other states. Only 69.6% of unlicensed drivers were wearing seat belts at the time of the crash.

## 2003 MISSOURI TRAFFIC CRASHES

### DRIVERS AND PASSENGERS OF AUTOMOBILES, TRUCKS, VANS, AND MOTOR HOMES

#### PERSONAL INJURY SEVERITY BY SEAT BELT USAGE

WEARING		NOT WEARING		UNKNOWN		TOTAL	
KILLED							
DRIVER	213		462		74		749
ROW %		31.6		68.4		-	100.0
PASSENGER	80		175		33		288
ROW %		31.4		68.6		-	100.0
MAJOR DISABLING INJURY							
DRIVER	2,891		1,742		616		5,249
ROW %		62.4		37.6		-	100.0
PASSENGER	1,188		1,058		213		2,459
ROW %		52.9		47.1		-	100.0
EVIDENT INJURY							
DRIVER	11,809		3,426		1,838		17,073
ROW %		77.5		22.5		-	100.0
PASSENGER	4,858		2,265		737		7,860
ROW %		68.2		31.8		-	100.0
PROBABLE INJURY							
DRIVER	17,468		1,694		2,021		21,183
ROW %		91.2		8.8		-	100.0
PASSENGER	8,025		1,385		1,070		10,480
ROW %		85.3		14.7		-	100.0
NOT INJURED							
DRIVER	203,633		11,128		29,552		244,313
ROW %		94.8		5.2		-	100.0
PASSENGER <sup>1</sup>	73	-	12	-	6	-	91
							-
INJURY UNKNOWN							
DRIVER	1,243		122		16,154		17,519
ROW %		91.1		8.9		-	100.0
PASSENGER <sup>1</sup>	4	-	3	-	2	-	9
							-

<sup>1</sup>Data on all passengers of vehicles not injured or whose injury level is unknown in Missouri crashes are not available in the Statewide Traffic Accident Records System (STARS). As a result, these statistics have been excluded.

**TABLE 3.13.1**

## 2003 MISSOURI TRAFFIC CRASHES

### DRIVERS OF AUTOMOBILES, TRUCKS, VANS, AND MOTOR HOMES

#### AREA CLASSIFICATION BY SEAT BELT USAGE

	WEARING		NOT WEARING		UNKNOWN		TOTAL	
URBAN ROW %	164,207	94.8	8,929	5.2	40,636	-	213,772	100.0
RURAL ROW %	73,050	88.3	9,645	11.7	9,619	-	92,314	100.0
<b>TOTAL ROW %</b>	237,257	92.7	18,574	7.3	50,255	-	306,086	100.0

TABLE 3.13.2

## 2003 MISSOURI TRAFFIC CRASHES

### DRIVERS OF AUTOMOBILES, TRUCKS, VANS, AND MOTOR HOMES

#### WEATHER CONDITIONS BY SEAT BELT USAGE

	WEARING		NOT WEARING		UNKNOWN		TOTAL	
CLEAR ROW %	143,281	92.6	11,469	7.4	32,981	-	187,731	100.0
CLOUDY ROW %	59,132	92.2	5,035	7.8	9,598	-	73,765	100.0
RAIN ROW %	18,380	94.7	1,025	5.3	3,944	-	23,349	100.0
SNOW ROW %	6,103	94.0	393	6.0	1,160	-	7,656	100.0
SLEET ROW %	528	92.0	46	8.0	131	-	705	100.0
FREEZING ROW %	721	92.1	62	7.9	209	-	992	100.0
FOG OR MIST ROW %	1,478	87.7	208	12.3	261	-	1,947	100.0
INDETERMINATE ROW %	3,111	95.0	164	5.0	1,599	-	4,874	100.0
UNKNOWN ROW %	4,523	96.3	172	3.7	372	-	5,067	100.0
<b>TOTAL ROW %</b>	237,257	92.7	18,574	7.3	50,255	-	306,086	100.0

TABLE 3.13.3

## 2003 MISSOURI TRAFFIC CRASHES

### DRIVERS OF AUTOMOBILES, TRUCKS, VANS, AND MOTOR HOMES

#### HIGHWAY CLASSIFICATION BY SEAT BELT USAGE

	WEARING		NOT WEARING		UNKNOWN		TOTAL	
INTERSTATE	29,727		1,240		5,556		36,523	
ROW %		96.0		4.0		-		100.0
U.S. HIGHWAY	26,033		2,153		3,086		31,272	
ROW %		92.4		7.6		-		100.0
STATE NUMBERED	40,349		3,302		3,805		47,456	
ROW %		92.4		7.6		-		100.0
SINGLE STATE LETTERED	11,429		1,776		1,012		14,217	
ROW %		86.6		13.4		-		100.0
DOUBLE STATE LETTERED	5,142		729		423		6,294	
ROW %		87.6		12.4		-		100.0
OUTER ROAD	2,237		140		252		2,629	
ROW %		94.1		5.9		-		100.0
COUNTY ROAD	18,676		2,425		2,668		23,769	
ROW %		88.5		11.5		-		100.0
CITY STREET	93,591		6,073		30,493		130,157	
ROW %		93.9		6.1		-		100.0
INTERSTATE LOOP	1,598		81		107		1,786	
ROW %		95.2		4.8		-		100.0
OTHER <sup>1</sup>	8,475		655		2,853		11,983	
ROW %		92.8		7.2		-		100.0
<b>TOTAL</b>	237,257		18,574		50,255		306,086	
<b>ROW %</b>		92.7		7.3		-		100.0

<sup>1</sup> "Other" includes types of roads that are maintained by the State as well as by local jurisdictions.

**TABLE 3.13.4**

**2003 MISSOURI TRAFFIC CRASHES**

**DRIVERS OF AUTOMOBILES, TRUCKS, VANS, AND MOTOR HOMES**

**MONTH OF YEAR BY SEAT BELT USAGE**

	<b>WEARING</b>		<b>NOT WEARING</b>		<b>UNKNOWN</b>		<b>TOTAL</b>	
JANUARY	17,343		1,566		3,687		22,596	
ROW %		91.7		8.3		-		100.0
FEBRUARY	17,819		1,520		3,710		23,049	
ROW %		92.1		7.9		-		100.0
MARCH	16,770		1,547		3,977		22,294	
ROW %		91.6		8.4		-		100.0
APRIL	18,619		1,614		4,128		24,361	
ROW %		92.0		8.0		-		100.0
MAY	21,241		1,720		4,766		27,727	
ROW %		92.5		7.5		-		100.0
JUNE	20,470		1,485		4,289		26,244	
ROW %		93.2		6.8		-		100.0
JULY	19,636		1,481		4,063		25,180	
ROW %		93.0		7.0		-		100.0
AUGUST	20,746		1,599		4,435		26,780	
ROW %		92.8		7.2		-		100.0
SEPTEMBER	21,150		1,451		4,269		26,870	
ROW %		93.6		6.4		-		100.0
OCTOBER	22,379		1,703		4,468		28,550	
ROW %		92.9		7.1		-		100.0
NOVEMBER	19,733		1,484		4,148		25,365	
ROW %		93.0		7.0		-		100.0
DECEMBER	21,351		1,404		4,315		27,070	
ROW %		93.8		6.2		-		100.0
<b>TOTAL</b>	237,257		18,574		50,255		306,086	
ROW %		92.7		7.3		-		100.0

**TABLE 3.13.5**

**2003 MISSOURI TRAFFIC CRASHES**  
**DRIVERS OF AUTOMOBILES, TRUCKS, VANS, AND MOTOR HOMES**  
**DAY OF WEEK BY SEAT BELT USAGE**

	WEARING		NOT WEARING		UNKNOWN		TOTAL	
SUNDAY	20,263		2,130		5,251		27,644	
ROW %		90.5		9.5		-		100.0
MONDAY	34,444		2,483		7,059		43,986	
ROW %		93.3		6.7		-		100.0
TUESDAY	35,453		2,553		7,215		45,221	
ROW %		93.3		6.7		-		100.0
WEDNESDAY	36,911		2,711		7,284		46,906	
ROW %		93.2		6.8		-		100.0
THURSDAY	37,210		2,763		7,537		47,510	
ROW %		93.1		6.9		-		100.0
FRIDAY	43,519		3,204		8,689		55,412	
ROW %		93.1		6.9		-		100.0
SATURDAY	29,437		2,730		7,185		39,352	
ROW %		91.5		8.5		-		100.0
UNKNOWN	20		0		35		55	
ROW %		100.0		0.0		-		100.0
<b>TOTAL</b>	237,257		18,574		50,255		306,086	
<b>ROW %</b>		92.7		7.3		-		100.0

**TABLE 3.13.6**

**2003 MISSOURI TRAFFIC CRASHES**

**DRIVERS OF AUTOMOBILES, TRUCKS, VANS, AND MOTOR HOMES**

**HOUR OF DAY BY SEAT BELT USAGE**

	WEARING		NOT WEARING		UNKNOWN		TOTAL	
12:01A - 02:59A <i>ROW %</i>	6,446	83.4	1,288	16.6	3,227	-	10,961	100.0
03:00A - 05:59A <i>ROW %</i>	4,052	84.9	719	15.1	1,465	-	6,236	100.0
06:00A - 08:59A <i>ROW %</i>	29,778	93.8	1,956	6.2	5,296	-	37,030	100.0
09:00A - 11:59A <i>ROW %</i>	34,254	93.6	2,327	6.4	6,259	-	42,840	100.0
NOON - 02:59P <i>ROW %</i>	50,033	93.8	3,337	6.2	9,187	-	62,557	100.0
03:00P - 05:59P <i>ROW %</i>	67,866	93.8	4,523	6.2	12,434	-	84,823	100.0
06:00P - 08:59P <i>ROW %</i>	29,181	92.3	2,453	7.7	6,798	-	38,432	100.0
09:00P - MIDNGT <i>ROW %</i>	15,020	88.8	1,904	11.3	4,847	-	21,771	100.0
UNKNOWN <i>ROW %</i>	627	90.4	67	9.6	742	-	1,436	100.0
<b>TOTAL <i>ROW %</i></b>	237,257	92.7	18,574	7.3	50,255	-	306,086	100.0

**TABLE 3.13.7**



**2003 MISSOURI TRAFFIC CRASHES**

**DRIVERS OF AUTOMOBILES, TRUCKS, VANS, AND MOTOR HOMES**

**SEX OF DRIVER BY SEAT BELT USAGE**

	<b>WEARING</b>		<b>NOT WEARING</b>		<b>UNKNOWN</b>		<b>TOTAL</b>	
MALE	127,354		12,467		21,512		161,333	
ROW %		91.1		8.9		-		100.0
FEMALE	104,282		5,903		13,810		123,995	
ROW %		94.6		5.4		-		100.0
UNKNOWN	5,621		204		14,933		20,758	
ROW %		96.5		3.5		-		100.0
<b>TOTAL</b>	237,257		18,574		50,255		306,086	
<b>ROW %</b>		92.7		7.3		-		100.0

**TABLE 3.13.8**

**2003 MISSOURI TRAFFIC CRASHES**

**DRIVERS OF AUTOMOBILES, TRUCKS, VANS, AND MOTOR HOMES**

**DRIVER EJECTION BY SEAT BELT USAGE**

	<b>WEARING</b>		<b>NOT WEARING</b>		<b>UNKNOWN</b>		<b>TOTAL</b>	
TOTAL EJECTION	46		683		52		781	
ROW %		6.3		93.7		-		100.0
PARTIAL EJECTION	308		197		100		605	
ROW %		61.0		39.0		-		100.0
NO EJECTION	228,410		17,326		32,338		278,074	
ROW %		93.0		7.0		-		100.0
UNKNOWN	8,493		368		17,765		26,626	
ROW %		95.9		4.1		-		100.0
<b>TOTAL</b>	237,257		18,574		50,255		306,086	
<b>ROW %</b>		92.7		7.3		-		100.0

**TABLE 3.13.9**

**2003 MISSOURI TRAFFIC CRASHES**

**DRIVERS OF AUTOMOBILES, TRUCKS, VANS, AND MOTOR HOMES**

**AGE OF DRIVER BY SEAT BELT USAGE**

	WEARING		NOT WEARING		UNKNOWN		TOTAL	
AVERAGE AGE OF DRIVER	37.8	-	33.9	-	36.9	-	37.4	-
14 YEARS AND UNDER ROW %	60	55.0	49	45.0	49	-	158	100.0
15 - 20 YEARS ROW %	42,462	90.3	4,568	9.7	4,884	-	51,914	100.0
21 - 25 YEARS ROW %	31,336	90.7	3,206	9.3	4,612	-	39,154	100.0
26 - 30 YEARS ROW %	22,936	92.2	1,948	7.8	3,489	-	28,373	100.0
31 - 35 YEARS ROW %	22,460	93.4	1,580	6.6	3,092	-	27,132	100.0
36 - 40 YEARS ROW %	22,085	93.5	1,528	6.5	2,927	-	26,540	100.0
41 - 45 YEARS ROW %	22,130	94.0	1,411	6.0	2,969	-	26,510	100.0
46 - 50 YEARS ROW %	18,823	94.4	1,118	5.6	2,359	-	22,300	100.0
51 - 55 YEARS ROW %	15,203	94.9	818	5.1	1,802	-	17,823	100.0
56 - 60 YEARS ROW %	11,326	95.1	587	4.9	1,302	-	13,215	100.0
61 - 65 YEARS ROW %	7,868	95.1	408	4.9	798	-	9,074	100.0
66 YEARS AND OVER ROW %	18,476	94.2	1,142	5.8	2,033	-	21,651	100.0
UNKNOWN ROW %	2,092	90.8	211	9.2	19,939	-	22,242	100.0
<b>TOTAL ROW %</b>	237,257	92.7	18,574	7.3	50,255	-	306,086	100.0

**TABLE 3.13.10**

## 2003 MISSOURI TRAFFIC CRASHES

### DRIVERS OF AUTOMOBILES, TRUCKS, VANS, AND MOTOR HOMES

#### DRIVER'S LICENSE STATE AND TYPE BY SEAT BELT USAGE

		WEARING		NOT WEARING		UNKNOWN		TOTAL	
MISSOURI									
LEARNER'S PERMIT	1,056			128		171		1,355	
ROW %		89.2			10.8		-		100.0
OPERATOR'S LICENSE	188,062			14,050		23,204		225,316	
ROW %		93.0			7.0		-		100.0
MOTORCYCLE ONLY	3			0		0		3	
ROW %		100.0			0.0		-		100.0
COMMERCIAL DRIVER'S LICENSE	12,149			1,271		1,549		14,969	
ROW %		90.5			9.5		-		100.0
SUBTOTAL	201,270			15,449		24,924		241,643	
ROW %		92.9			7.1		-		100.0
OUTSTATE									
LEARNER'S PERMIT	38			4		8		50	
ROW %		90.5			9.5		-		100.0
OPERATOR'S LICENSE	20,077			941		3,114		24,132	
ROW %		95.5			4.5		-		100.0
MOTORCYCLE ONLY	1			0		0		1	
ROW %		100.0			0.0		-		100.0
COMMERCIAL DRIVER'S LICENSE	4,197			145		436		4,778	
ROW %		96.7			3.3		-		100.0
SUBTOTAL	24,313			1,090		3,558		28,961	
ROW %		95.7			4.3		-		100.0
UNLICENSED	3,135			1,367		1,323		5,825	
ROW %		69.6			30.4		-		100.0
UNKNOWN	8,539			668		20,450		29,657	
ROW %		92.7			7.3		-		100.0
TOTAL	237,257			18,574		50,255		306,086	
ROW %		92.7			7.3		-		100.0

**TABLE 3.13.11**

# 2003 MISSOURI TRAFFIC CRASHES

## DRIVERS OF AUTOMOBILES, TRUCKS, VANS, AND MOTOR HOMES

### TYPE OF VEHICLE DRIVEN BY SEAT BELT USAGE

	WEARING		NOT WEARING		UNKNOWN		TOTAL	
AUTOMOBILE	139,918		9,599		30,435		179,952	
ROW %		93.6		6.4		-		100.0
SPORT UTILITY VEHICLE	29,247		1,720		5,259		36,226	
ROW %		94.5		5.5		-		100.0
LIMOUSINE	43		2		13		58	
ROW %		95.6		4.4		-		100.0
VAN	18,261		878		3,525		22,664	
ROW %		95.4		4.6		-		100.0
MOTOR HOME / CAMPER	191		10		40		241	
ROW %		95.0		5.0		-		100.0
TRUCK	49,597		6,365		10,983		66,945	
ROW %		88.6		11.4		-		100.0
<b>TOTAL</b>	237,257		18,574		50,255		306,086	
<b>ROW %</b>		92.7		7.3		-		100.0

TABLE 3.13.12

# 2003 MISSOURI TRAFFIC CRASHES

## DRIVERS OF AUTOMOBILES, TRUCKS, VANS, AND MOTOR HOMES

### DRIVER INTOXICATION BY SEAT BELT USAGE

	WEARING		NOT WEARING		UNKNOWN		TOTAL	
DRINKING	3,202		2,325		1,982		7,509	
ROW %		57.9		42.1		-		100.0
DRUGS	236		146		150		532	
ROW %		61.8		38.2		-		100.0
DRINKING AND DRUGS	124		130		113		367	
ROW %		48.8		51.2		-		100.0
NO DRINKING / DRUGS	229,969		15,774		44,903		290,646	
ROW %		93.6		6.4		-		100.0
UNKNOWN	3,726		199		3,107		7,032	
ROW %		94.9		5.1		-		100.0
<b>TOTAL</b>	237,257		18,574		50,255		306,086	
<b>ROW %</b>		92.7		7.3		-		100.0

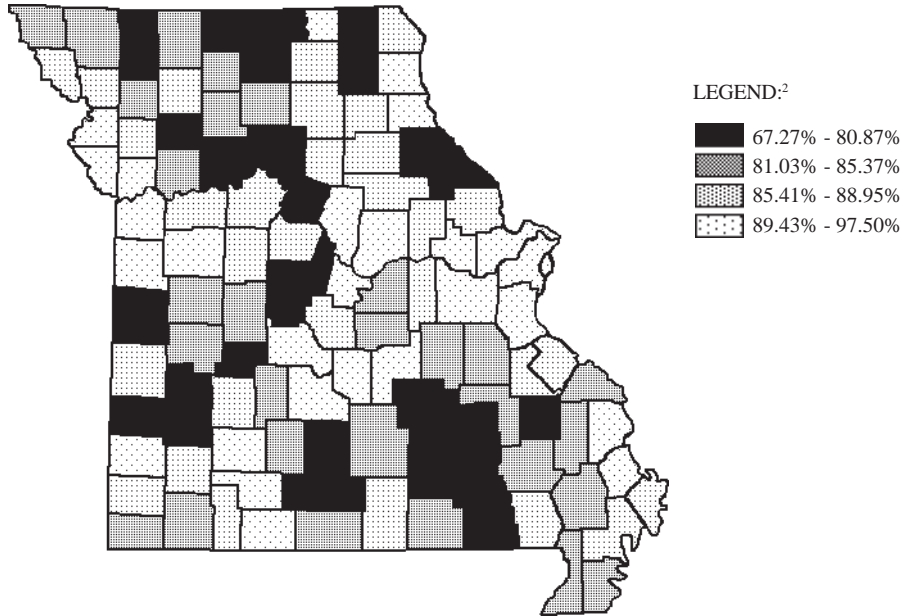
TABLE 3.13.13

## 2003 MISSOURI TRAFFIC CRASHES

### DRIVERS OF AUTOMOBILES, TRUCKS, VANS, AND MOTOR HOMES

#### SEAT BELT USAGE RATES<sup>1</sup>

#### COUNTY QUARTILE ANALYSIS



<sup>1</sup>LEGEND CATEGORIES ARE BASED ON QUARTILES OF COUNTIES.

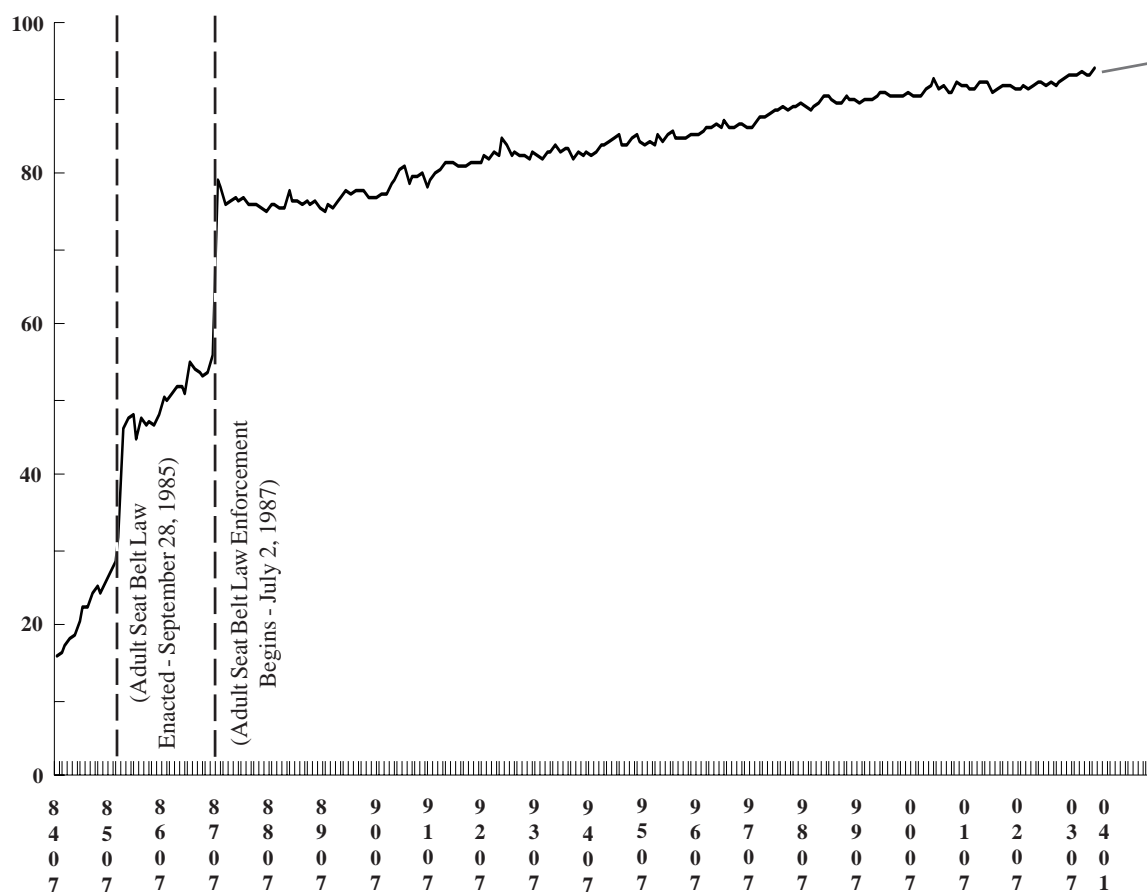
RANK	COUNTY	DRIVER USAGE RATE	RANK	COUNTY	DRIVER USAGE RATE
1.0	MERCER	67.27	22.0	BATES	80.45
2.0	GENTRY	72.73	23.0	MONITEAU	80.48
3.0	SHANNON	72.85	24.0	WORTH	80.49
4.0	CHARITON	75.32	25.0	CEDAR	80.58
5.0	PUTNAM	75.86	26.0	RALLS	80.78
6.0	BARTON	76.35	27.0	MADISON	80.79
7.0	SULLIVAN	76.69	28.0	MORGAN	80.87
8.0	WRIGHT	77.14	First Quartile		
9.0	DADE	77.44	-----		
10.5	DOUGLAS	77.48	Second Quartile		
10.5	REYNOLDS	77.48	29.0	ST. CLAIR	81.03
12.0	SCOTLAND	78.05	30.0	OZARK	81.10
13.0	HOWARD	78.16	31.0	LINN	81.40
14.0	KNOX	78.26	32.0	WAYNE	81.70
15.0	CARTER	78.29	33.0	RAY	81.77
16.0	DENT	78.41	34.0	TEXAS	81.80
17.0	RIPLEY	78.87	35.0	MC DONALD	82.01
18.0	HICKORY	78.99	36.0	PEMISCOT	82.08
19.0	CALDWELL	79.37	37.0	BOLLINGER	82.10
20.0	PIKE	79.75	38.0	WASHINGTON	82.14
21.0	CARROLL	79.79	39.0	HARRISON	82.35

RANK	COUNTY	DRIVER USAGE RATE	RANK	COUNTY	DRIVER USAGE RATE
40.0	ATCHISON	82.40	78.0	LAWRENCE	88.42
41.0	DALLAS	82.79	79.0	CLARK	88.46
42.0	NODAWAY	83.11	80.0	COOPER	88.63
43.0	BARRY	83.22	81.0	NEW MADRID	88.65
44.0	IRON	83.33	82.0	AUDRAIN	88.66
45.0	HENRY	83.67	83.0	SHELBY	88.71
46.0	CRAWFORD	83.69	84.0	LAFAYETTE	88.72
47.0	MARIES	84.08	85.0	STONE	88.82
48.0	OREGON	84.12	86.5	BUTLER	88.95
49.0	OSAGE	84.15	86.5	STE. GENEVIEVE	88.95
50.0	LIVINGSTON	84.41	Third Quartile		
51.0	DUNKLIN	84.76			
52.0	PERRY	84.82	Fourth Quartile		
53.0	STODDARD	85.05	88.0	LEWIS	89.43
54.0	BENTON	85.10	89.0	CALLAWAY	89.84
55.0	GRUNDY	85.14	90.0	JOHNSON	89.90
56.0	WEBSTER	85.28	91.0	MARION	90.94
57.0	DE KALB	85.37	92.0	CASS	91.00
Second Quartile			93.0	FRANKLIN	91.28
			94.0	CHRISTIAN	91.31
Third Quartile			95.0	BUCHANAN	91.43
58.0	ANDREW	85.41	96.0	JASPER	91.50
59.0	MONROE	85.77	97.0	COLE	91.68
60.0	POLK	85.83	98.0	LACLEDE	91.80
61.0	DAVISS	85.88	99.0	CAMDEN	91.86
62.0	VERNON	86.06	100.0	JEFFERSON	91.98
63.0	LINCOLN	86.08	101.0	SCOTT	91.99
64.0	MISSISSIPPI	86.19	102.0	WARREN	92.27
65.5	HOWELL	86.40	103.0	HELPS	92.71
65.5	MACON	86.40	104.0	PULASKI	92.78
67.0	GASCONADE	86.73	105.0	GREENE	93.25
68.0	ST. FRANCOIS	86.81	106.0	SCHUYLER	93.33
69.0	RANDOLPH	87.04	107.0	TANEY	93.34
70.0	CLINTON	87.23	108.0	JACKSON	93.48
71.0	HOLT	87.50	109.0	PLATTE	93.63
72.0	PETTIS	87.67	110.0	CLAY	94.47
73.0	MILLER	87.82	111.0	BOONE	94.72
74.0	ADAIR	87.89	112.0	ST. CHARLES	95.28
75.0	MONTGOMERY	87.96	113.0	CAPE GIRARDEAU	95.49
76.0	NEWTON	88.24	114.0	ST. LOUIS	96.95
77.0	SALINE	88.38	115.0	ST. LOUIS CITY	97.50

<sup>1</sup> This table contains a ranking of Missouri counties by the driver seat belt usage rates associated with 2003 traffic crashes. Drivers whose seat belt usage was unknown have been excluded. Counties have been ranked based upon the worst driver usage rates. (Mercer County is first due to its having the lowest usage rate of all counties in the State. Only 67.27% of the drivers involved in crashes in Mercer County were wearing seat belts).

**TABLE 3.13.14**

# **PERCENT OF DRIVERS WEARING SEAT BELTS<sup>1</sup>** **MONTHLY TIME SERIES**



<sup>1</sup> Because the Missouri adult seat belt law as well as its enforcement provisions were enacted mid-year, time series analysis is based on monthly data.

**FIGURE 3.13.1**

**AUTOMOBILE / TRUCK / VAN / MOTOR HOME OCCUPANTS UNDER THE AGE OF FOUR YEARS  
KILLED AND INJURED IN MISSOURI TRAFFIC CRASHES**

**1981-1983 AVERAGE COMPARED TO 1984-2002 AVERAGE AND 2003<sup>1</sup>**

	<b>1981 - 1983 AVERAGE<sup>2</sup></b>	<b>1984 - 2002 AVERAGE<sup>2</sup></b>	<b>% OF CHANGE 1981 - 1983 AVERAGE</b>	<b>2003</b>	<b>% OF CHANGE 1981 - 1983 AVERAGE</b>
KILLED	11	11	= 0.0	7	- 36.4
MAJOR DISABLING	71	85	+ 19.7	56	- 21.1
EVIDENT	626	505	- 19.3	295	- 52.9
PROBABLE	464	560	+ 20.7	427	- 8.0
<b>TOTAL</b>	<b>1,171</b>	<b>1,162</b>	<b>- 0.9</b>	<b>785</b>	<b>- 33.0</b>

<sup>1</sup>1981 - 1983 data concerning occupants under the age of four years were used as a base for this comparison due to the fact that infant restraint legislation was enacted in the State of Missouri in January of 1984.

<sup>2</sup>Due to rounding, the "Total" average does not equal the sum of all personal injury level averages in this column.

**TABLE 3.13.15**



#### **4.0 MISSOURI COUNTY AND CITY TRAFFIC CRASH ANALYSIS**

*A SERIES OF TABLES SUMMARIZES 2003 TRAFFIC CRASH ACTIVITY ASSOCIATED WITH ALL COUNTIES, AS WELL AS ALL CITIES HAVING POPULATIONS OF 1,000 OR MORE IN THE STATE OF MISSOURI. IN ADDITION, THE TABLES DISPLAY THE PROPORTION OF EACH COMMUNITY'S TRAFFIC CRASH ACTIVITY RELATED TO THE PROBLEM AREAS DISCUSSED IN SECTION 3.0 OF THIS COMPENDIUM WITH THE EXCEPTION OF SEAT BELT USAGE. PLEASE NOTE THAT ALL 2003 TRAFFIC*

**2003 MISSOURI TRAFFIC CRASHES  
COUNTY AND CITY SUMMARY<sup>1</sup>**

CITY	CRASH SEVERITY	TOTAL ACCS	SPEED INV	DRINK INV	DRVR UND 21 INV	DRVR 55 + INV	COMM VEH INV	MOTOR-CYCLE INV	SCHOOL BUS INV	BIKE INV	PEDES-TRIAN INV	FIXED OBJECT INV	HAZ-ARD MATL INV	CONSTR/ OTH WK ZONE INV
ADAIR CO	FATAL	1	0	0	0	1	0	0	0	0	1	0	0	0
	INJURY	131	29	14	46	39	9	2	1	4	3	32	1	0
	DAMAGE	308	30	13	100	76	34	2	1	0	1	36	0	2
	TOTAL	440	59	27	146	116	43	4	2	4	5	68	1	2
KIRKSVILLE	FATAL	1	0	0	0	1	0	0	0	0	1	0	0	0
	INJURY	90	10	8	30	32	4	1	1	4	3	7	0	0
	DAMAGE	245	12	11	80	60	20	2	1	0	1	21	0	0
	TOTAL	336	22	19	110	93	24	3	2	4	5	28	0	0
POP UNDER 1000	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	41	19	6	16	7	5	1	0	0	0	25	1	0
	DAMAGE	63	18	2	20	16	14	0	0	0	0	15	0	2
	TOTAL	104	37	8	36	23	19	1	0	0	0	40	1	2
ANDREW CO	FATAL	3	2	0	0	1	0	0	0	0	1	2	0	0
	INJURY	107	33	12	26	25	6	2	1	1	0	46	0	0
	DAMAGE	181	55	8	45	41	27	0	0	0	0	80	1	1
	TOTAL	291	90	20	71	67	33	2	1	1	1	128	1	1
COUNTRY CLUB VILLAGE	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	2	0	0	1	1	0	0	0	0	0	0	0	0
	DAMAGE	7	1	0	1	2	0	0	0	0	0	1	0	0
	TOTAL	9	1	0	2	3	0	0	0	0	0	1	0	0
SAVANNAH	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	3	0	0	0	1	0	0	0	1	0	0	0	0
	DAMAGE	4	1	0	0	2	1	0	0	0	0	1	0	0
	TOTAL	7	1	0	0	3	1	0	0	1	0	1	0	0
POP UNDER 1000	FATAL	3	2	0	0	1	0	0	0	0	1	2	0	0
	INJURY	102	33	12	25	23	6	2	1	0	0	46	0	0
	DAMAGE	170	53	8	44	37	26	0	0	0	0	78	1	1
	TOTAL	275	88	20	69	61	32	2	1	0	1	126	1	1
ATCHISON CO	FATAL	1	0	0	0	0	0	0	0	0	0	1	0	0
	INJURY	41	10	5	10	6	6	0	0	0	0	20	0	0
	DAMAGE	57	17	3	19	9	16	0	0	0	0	22	0	1
	TOTAL	99	27	8	29	15	22	0	0	0	0	43	0	1
ROCKPORT	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	0	0	0	0	0	0	0	0	0	0	0	0	0
	DAMAGE	3	0	0	0	1	2	0	0	0	0	1	0	0
	TOTAL	3	0	0	0	1	2	0	0	0	0	1	0	0
TARKIO	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	2	0	0	1	0	0	0	0	0	0	0	0	0
	DAMAGE	1	0	0	1	0	0	0	0	0	0	0	0	0
	TOTAL	3	0	0	2	0	0	0	0	0	0	0	0	0
POP UNDER 1000	FATAL	1	0	0	0	0	0	0	0	0	0	1	0	0
	INJURY	39	10	5	9	6	6	0	0	0	0	20	0	0
	DAMAGE	53	17	3	18	8	14	0	0	0	0	21	0	1
	TOTAL	93	27	8	27	14	20	0	0	0	0	42	0	1
AUDRAIN CO	FATAL	11	5	3	1	4	3	1	0	0	0	5	0	0
	INJURY	159	36	20	54	37	23	8	0	2	1	65	0	2
	DAMAGE	393	56	13	118	120	39	3	2	0	1	89	0	2
	TOTAL	563	97	36	173	161	65	12	2	2	2	159	0	4
MEXICO	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	47	7	1	15	15	0	5	0	0	0	8	0	0
	DAMAGE	262	19	6	84	86	20	2	1	0	0	40	0	1
	TOTAL	309	26	7	99	101	20	7	1	0	0	48	0	1
VANDALIA	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	7	2	0	5	1	0	1	0	2	1	1	0	0
	DAMAGE	25	4	1	10	14	0	1	0	0	1	3	0	0
	TOTAL	32	6	1	15	15	0	2	0	2	2	4	0	0
POP UNDER 1000	FATAL	11	5	3	1	4	3	1	0	0	0	5	0	0
	INJURY	105	27	19	34	21	23	2	0	0	0	56	0	2
	DAMAGE	106	33	6	24	20	19	0	1	0	0	46	0	1
	TOTAL	222	65	28	59	45	45	3	1	0	0	107	0	3
BARRY CO	FATAL	19	5	8	4	5	5	0	0	0	1	6	0	0
	INJURY	271	99	40	88	70	18	14	1	4	2	83	0	3
	DAMAGE	545	144	42	174	127	56	1	9	2	0	136	1	7
	TOTAL	835	248	90	266	202	79	15	10	6	3	225	1	10

**TABLE 4.0.1**

**2003 MISSOURI TRAFFIC CRASHES  
COUNTY AND CITY SUMMARY<sup>1</sup>**

CITY	CRASH SEVERITY	TOTAL ACCS	SPEED INV	DRINK INV	DRVR UND 21 INV	DRVR 55 + INV	COMM VEH INV	MOTOR-CYCLE INV	SCHOOL BUS INV	BIKE INV	PEDES-TRIAN INV	FIXED OBJECT INV	HAZ-ARD MATL INV	CONSTR/OTH WK ZONE INV
CASSVILLE	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	17	2	2	10	2	0	0	0	0	0	6	0	0
	DAMAGE	98	2	3	46	32	7	0	3	1	0	11	0	0
	TOTAL	115	4	5	56	34	7	0	3	1	0	17	0	0
MONETT / BAR	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	52	9	2	15	18	7	0	0	4	2	3	0	0
	DAMAGE	139	26	11	42	42	20	0	1	1	0	12	0	4
	TOTAL	191	35	13	57	60	27	0	1	5	2	15	0	4
PURDY	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	1	0	0	1	0	0	0	0	0	0	0	0	0
	DAMAGE	5	0	0	1	3	0	0	0	0	0	1	0	0
	TOTAL	6	0	0	2	3	0	0	0	0	0	1	0	0
POP UNDER 1000	FATAL	19	5	8	4	5	5	0	0	0	1	6	0	0
	INJURY	201	88	36	62	50	11	14	1	0	0	74	0	3
	DAMAGE	303	116	28	85	50	29	1	5	0	0	112	1	3
	TOTAL	523	209	72	151	105	45	15	6	0	1	192	1	6
BARTONCO	FATAL	4	3	1	2	0	0	0	0	0	0	2	0	0
	INJURY	83	17	10	21	25	7	3	0	1	3	26	0	0
	DAMAGE	175	34	7	61	43	23	2	1	0	0	55	0	1
	TOTAL	262	54	18	84	68	30	5	1	1	3	83	0	1
LAMAR	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	16	1	1	9	6	1	1	0	1	1	2	0	0
	DAMAGE	60	5	1	27	20	4	1	0	0	0	11	0	1
	TOTAL	76	6	2	36	26	5	2	0	1	1	13	0	1
POP UNDER 1000	FATAL	4	3	1	2	0	0	0	0	0	0	2	0	0
	INJURY	67	16	9	12	19	6	2	0	0	2	24	0	0
	DAMAGE	115	29	6	34	23	19	1	1	0	0	44	0	0
	TOTAL	186	48	16	48	42	25	3	1	0	2	70	0	0
BATES CO	FATAL	1	0	0	1	0	0	0	0	0	0	1	0	0
	INJURY	89	25	12	29	26	4	4	0	2	1	46	0	1
	DAMAGE	224	42	10	55	58	39	1	2	0	0	75	0	2
	TOTAL	314	67	22	85	84	43	5	2	2	1	122	0	3
ADRIAN	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	3	0	0	1	2	0	0	0	0	0	0	0	0
	DAMAGE	10	1	1	5	3	0	0	0	0	0	1	0	0
	TOTAL	13	1	1	6	5	0	0	0	0	0	1	0	0
BUTLER	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	19	3	0	8	10	0	1	0	2	1	4	0	0
	DAMAGE	64	4	3	21	22	5	0	1	0	0	7	0	1
	TOTAL	83	7	3	29	32	5	1	1	2	1	11	0	1
RICH HILL	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	2	0	0	1	1	0	0	0	0	0	0	0	0
	DAMAGE	1	0	0	1	0	0	0	0	0	0	1	0	0
	TOTAL	3	0	0	2	1	0	0	0	0	0	1	0	0
POP UNDER 1000	FATAL	1	0	0	1	0	0	0	0	0	0	1	0	0
	INJURY	65	22	12	19	13	4	3	0	0	0	42	0	1
	DAMAGE	149	37	6	28	33	34	1	1	0	0	66	0	1
	TOTAL	215	59	18	48	46	38	4	1	0	0	109	0	2
BENTONCO	FATAL	9	5	1	3	3	1	0	0	0	0	5	0	0
	INJURY	161	59	16	45	46	8	10	1	0	3	66	0	0
	DAMAGE	250	54	15	52	85	28	0	0	1	0	82	1	1
	TOTAL	420	118	32	100	134	37	10	1	1	3	153	1	1
COLE CAMP	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	3	0	0	0	3	0	0	0	0	0	0	0	0
	DAMAGE	14	2	0	2	4	4	0	0	0	0	2	0	0
	TOTAL	17	2	0	2	7	4	0	0	0	0	2	0	0
LINCOLN	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	6	1	0	2	4	0	0	0	0	0	0	0	0
	DAMAGE	15	3	1	4	5	0	0	0	0	0	3	0	0
	TOTAL	21	4	1	6	9	0	0	0	0	0	3	0	0
WARSAW	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	12	0	0	3	8	1	1	1	0	1	0	0	0
	DAMAGE	33	1	2	4	17	0	0	0	1	0	3	0	0
	TOTAL	45	1	2	7	25	1	1	1	1	1	3	0	0

**TABLE 4.0.1**

**2003 MISSOURI TRAFFIC CRASHES  
COUNTY AND CITY SUMMARY<sup>1</sup>**

CITY	CRASH SEVERITY	TOTAL ACCS	SPEED INV	DRINK INV	DRVR UND 21 INV	DRVR 55 + INV	COMM VEH INV	MOTOR-CYCLE INV	SCHOOL BUS INV	BIKE INV	PEDES-TRIAN INV	FIXED OBJECT INV	HAZ-ARD MATL INV	CONSTR/ OTH WK ZONE INV
POP UNDER 1000	FATAL	9	5	1	3	3	1	0	0	0	0	5	0	0
	INJURY	140	58	16	40	31	7	9	0	0	2	66	0	0
	DAMAGE	188	48	12	42	59	24	0	0	0	0	74	1	1
	TOTAL	337	111	29	85	93	32	9	0	0	2	145	1	1
BOLLINGER CO	FATAL	4	0	1	0	3	0	0	0	0	1	3	0	0
	INJURY	73	29	13	20	18	8	1	0	0	1	41	1	0
	DAMAGE	129	32	10	34	32	16	0	1	0	0	52	0	0
	TOTAL	206	61	24	54	53	24	1	1	0	2	96	1	0
MARBLE HILL	FATAL	1	0	0	0	1	0	0	0	0	0	1	0	0
	INJURY	0	0	0	0	0	0	0	0	0	0	0	0	0
	DAMAGE	19	1	1	4	8	1	0	0	0	0	5	0	0
	TOTAL	20	1	1	4	9	1	0	0	0	0	6	0	0
POP UNDER 1000	FATAL	3	0	1	0	2	0	0	0	0	1	2	0	0
	INJURY	73	29	13	20	18	8	1	0	0	1	41	1	0
	DAMAGE	110	31	9	30	24	15	0	1	0	0	47	0	0
	TOTAL	186	60	23	50	44	23	1	1	0	2	90	1	0
BOONE CO	FATAL	27	7	7	10	5	7	0	1	1	1	14	0	0
	INJURY	951	222	114	320	182	79	34	6	26	33	210	1	12
	DAMAGE	3388	370	135	1087	723	288	7	29	6	1	410	2	22
	TOTAL	4366	599	256	1417	910	374	41	36	33	35	634	3	34
ASHLAND	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	13	2	0	7	6	0	1	0	0	2	2	0	0
	DAMAGE	38	4	4	11	5	5	0	1	0	0	4	0	0
	TOTAL	51	6	4	18	11	5	1	1	0	2	6	0	0
CENTRALIA	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	17	2	1	10	1	0	1	0	1	0	0	0	0
	DAMAGE	62	9	1	22	19	6	0	0	0	0	12	0	0
	TOTAL	79	11	2	32	20	6	1	0	1	0	12	0	0
COLUMBIA	FATAL	16	6	4	4	4	5	0	1	1	1	9	0	0
	INJURY	682	134	70	235	128	47	24	5	24	30	101	0	12
	DAMAGE	2704	236	97	907	572	176	7	25	6	1	222	1	19
	TOTAL	3402	376	171	1146	704	228	31	31	31	32	332	1	31
POP UNDER 1000	FATAL	11	1	3	6	1	2	0	0	0	0	5	0	0
	INJURY	239	84	43	68	47	32	8	1	1	1	107	1	0
	DAMAGE	584	121	33	147	127	101	0	3	0	0	172	1	3
	TOTAL	834	206	79	221	175	135	8	4	1	1	284	2	3
BUCHANAN CO	FATAL	9	4	1	0	2	0	1	0	0	1	6	0	0
	INJURY	809	145	55	296	215	52	25	2	18	23	164	2	5
	DAMAGE	2165	263	92	638	526	182	8	3	3	0	299	2	14
	TOTAL	2983	412	148	934	743	234	34	5	21	24	469	4	19
ST. JOSEPH	FATAL	4	2	1	0	1	0	0	0	0	1	2	0	0
	INJURY	688	104	38	250	201	43	21	2	17	23	102	1	4
	DAMAGE	1958	221	75	592	488	145	8	3	2	0	240	0	14
	TOTAL	2650	327	114	842	690	188	29	5	19	24	344	1	18
POP UNDER 1000	FATAL	5	2	0	0	1	0	1	0	0	0	4	0	0
	INJURY	121	41	17	46	14	9	4	0	1	0	62	1	1
	DAMAGE	207	42	17	46	38	37	0	0	1	0	59	2	0
	TOTAL	333	85	34	92	53	46	5	0	2	0	125	3	1
BUTLER CO	FATAL	14	5	3	3	4	3	2	0	0	4	3	0	0
	INJURY	452	77	41	159	131	30	7	0	8	12	109	0	5
	DAMAGE	1013	132	44	305	300	79	6	7	0	0	170	0	16
	TOTAL	1479	214	88	467	435	112	15	7	8	16	282	0	21
POPLAR BLUFF	FATAL	2	0	0	0	1	0	0	0	0	1	0	0	0
	INJURY	227	19	6	92	74	10	3	0	7	9	26	0	0
	DAMAGE	665	63	13	217	223	36	2	3	0	0	70	0	4
	TOTAL	894	82	19	309	298	46	5	3	7	10	96	0	4
POP UNDER 1000	FATAL	12	5	3	3	3	3	2	0	0	3	3	0	0
	INJURY	225	58	35	67	57	20	4	0	1	3	83	0	5
	DAMAGE	348	69	31	88	77	43	4	4	0	0	100	0	12
	TOTAL	585	132	69	158	137	66	10	4	1	6	186	0	17
CALDWELL CO	FATAL	3	0	0	1	1	0	0	0	0	0	0	0	0
	INJURY	53	12	7	15	12	8	0	0	1	2	18	0	1
	DAMAGE	93	30	3	29	19	14	0	1	0	0	36	0	0
	TOTAL	149	42	10	45	32	22	0	1	1	2	54	0	1

**TABLE 4.0.1**

**2003 MISSOURI TRAFFIC CRASHES  
COUNTY AND CITY SUMMARY<sup>1</sup>**

CITY	CRASH SEVERITY	TOTAL ACCS	SPEED INV	DRINK INV	DRVR UND 21 INV	DRVR 55 + INV	COMM VEH INV	MOTOR-CYCLE INV	SCHOOL BUS INV	BIKE INV	PEDES-TRIAN INV	FIXED OBJECT INV	HAZ-ARD MATL INV	CONSTR/OTH WK ZONE INV
HAMILTON	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	2	0	0	0	1	0	0	0	1	1	0	0	0
	DAMAGE	16	2	0	8	6	2	0	1	0	0	2	0	0
	TOTAL	18	2	0	8	7	2	0	1	1	1	2	0	0
POP UNDER 1000	FATAL	3	0	0	1	1	0	0	0	0	0	0	0	0
	INJURY	51	12	7	15	11	8	0	0	0	1	18	0	1
	DAMAGE	77	28	3	21	13	12	0	0	0	0	34	0	0
	TOTAL	131	40	10	37	25	20	0	0	0	1	52	0	1
CALLAWAY CO	FATAL	10	2	2	4	1	3	0	0	0	0	0	0	0
	INJURY	313	103	27	82	79	30	12	1	0	8	117	0	2
	DAMAGE	799	158	22	216	191	135	3	6	2	1	166	0	22
	TOTAL	1122	263	51	302	271	168	15	7	2	9	283	0	24
FULTON	FATAL	1	0	1	1	0	0	0	0	0	0	0	0	0
	INJURY	43	7	2	13	13	2	2	0	0	4	7	0	0
	DAMAGE	267	31	4	94	72	17	0	2	2	0	22	0	3
	TOTAL	311	38	7	108	85	19	2	2	2	4	29	0	3
HOLTS SUMMIT	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	17	3	1	6	3	1	1	0	0	1	5	0	0
	DAMAGE	27	3	1	6	5	2	0	0	0	0	4	0	0
	TOTAL	44	6	2	12	8	3	1	0	0	1	9	0	0
JEFFERSON CITY / CAL	FATAL	1	0	1	1	0	0	0	0	0	0	0	0	0
	INJURY	5	1	0	0	2	0	0	0	0	0	1	0	0
	DAMAGE	17	2	0	3	6	5	0	0	0	0	6	0	0
	TOTAL	23	3	1	4	8	5	0	0	0	0	7	0	0
POP UNDER 1000	FATAL	8	2	0	2	1	3	0	0	0	0	0	0	0
	INJURY	248	92	24	63	61	27	9	1	0	3	104	0	2
	DAMAGE	488	122	17	113	108	111	3	4	0	1	134	0	19
	TOTAL	744	216	41	178	170	141	12	5	0	4	238	0	21
CAMDEN CO	FATAL	12	5	5	3	4	1	1	0	0	1	5	0	1
	INJURY	323	83	42	99	102	36	17	2	1	3	105	0	2
	DAMAGE	738	109	44	194	255	100	2	3	0	0	146	1	10
	TOTAL	1073	197	91	296	361	137	20	5	1	4	256	1	13
CAMDENTON	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	36	2	0	13	13	3	0	0	0	2	5	0	0
	DAMAGE	110	3	3	35	44	19	0	0	0	0	5	0	2
	TOTAL	146	5	3	48	57	22	0	0	0	2	10	0	2
FOUR SEASONS	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	6	2	2	2	2	1	1	0	0	0	5	0	0
	DAMAGE	21	9	3	3	3	1	1	0	0	0	9	0	1
	TOTAL	27	11	5	5	5	2	2	0	0	0	14	0	1
LAKE OZARK / CAM	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	2	1	0	0	0	0	0	0	0	0	0	0	0
	DAMAGE	20	1	1	5	6	1	0	0	0	0	1	0	0
	TOTAL	22	2	1	5	6	1	0	0	0	0	1	0	0
OSAGE BEA / CAM	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	86	5	15	25	36	9	7	0	1	0	15	0	1
	DAMAGE	255	20	7	70	101	39	1	1	0	0	26	1	2
	TOTAL	341	25	22	95	137	48	8	1	1	0	41	1	3
RICHLAND / CAM	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	0	0	0	0	0	0	0	0	0	0	0	0	0
	DAMAGE	1	0	0	0	1	0	0	0	0	0	0	0	0
	TOTAL	1	0	0	0	1	0	0	0	0	0	0	0	0
POP UNDER 1000	FATAL	12	5	5	3	4	1	1	0	0	1	5	0	1
	INJURY	193	73	25	59	51	23	9	2	0	1	80	0	1
	DAMAGE	331	76	30	81	100	40	0	2	0	0	105	0	5
	TOTAL	536	154	60	143	155	64	10	4	0	2	190	0	7
CAPE GIRARDEAU CO	FATAL	8	1	3	2	5	1	1	0	0	0	3	0	0
	INJURY	476	75	25	160	149	26	12	2	11	15	104	0	3
	DAMAGE	2411	290	46	773	638	193	7	14	4	0	345	1	22
	TOTAL	2895	366	74	935	792	220	20	16	15	15	452	1	25
CAPE GIRARDEAU / CAP	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	239	14	7	84	83	12	4	0	8	13	22	0	3
	DAMAGE	1635	133	22	507	440	126	7	8	4	0	185	1	18
	TOTAL	1874	147	29	591	523	138	11	8	12	13	207	1	21

**TABLE 4.0.1**

**2003 MISSOURI TRAFFIC CRASHES  
COUNTY AND CITY SUMMARY<sup>1</sup>**

CITY	CRASH SEVERITY	TOTAL ACCS	SPEED INV	DRINK INV	DRVR UND 21 INV	DRVR 55 + INV	COMM VEH INV	MOTOR-CYCLE INV	SCHOOL BUS INV	BIKE INV	PEDES-TRIAN INV	FIXED OBJECT INV	HAZ-ARD MATL INV	CONSTR/ OTH WK ZONE INV
JACKSON	FATAL	1	0	0	1	1	0	1	0	0	0	0	0	0
	INJURY	85	17	6	37	25	2	1	1	2	2	13	0	0
	DAMAGE	418	61	6	163	121	26	0	3	0	0	41	0	3
	TOTAL	504	78	12	201	147	28	2	4	2	2	54	0	3
POP UNDER 1000	FATAL	7	1	3	1	4	1	0	0	0	0	3	0	0
	INJURY	152	44	12	39	41	12	7	1	1	0	69	0	0
	DAMAGE	358	96	18	103	77	41	0	3	0	0	119	0	1
	TOTAL	517	141	33	143	122	54	7	4	1	0	191	0	1
CARROLL CO	FATAL	1	0	1	0	0	0	0	0	0	0	1	0	0
	INJURY	53	19	9	21	13	3	1	0	0	2	31	0	1
	DAMAGE	105	22	8	28	25	17	0	1	0	0	35	1	1
	TOTAL	159	41	18	49	38	20	1	1	0	2	67	1	2
CARROLLTON	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	16	3	2	7	5	0	0	0	0	2	5	0	0
	DAMAGE	38	4	1	9	14	6	0	1	0	0	4	0	0
	TOTAL	54	7	3	16	19	6	0	1	0	2	9	0	0
POP UNDER 1000	FATAL	1	0	1	0	0	0	0	0	0	0	1	0	0
	INJURY	37	16	7	14	8	3	1	0	0	0	26	0	1
	DAMAGE	67	18	7	19	11	11	0	0	0	0	31	1	1
	TOTAL	105	34	15	33	19	14	1	0	0	0	58	1	2
CARTER CO	FATAL	5	4	2	0	0	0	0	0	0	0	3	0	0
	INJURY	37	16	8	10	8	6	0	0	0	1	11	0	3
	DAMAGE	88	22	5	17	24	18	0	0	0	0	26	0	3
	TOTAL	130	42	15	27	32	24	0	0	0	1	40	0	6
POP UNDER 1000	FATAL	5	4	2	0	0	0	0	0	0	0	3	0	0
	INJURY	37	16	8	10	8	6	0	0	0	1	11	0	3
	DAMAGE	88	22	5	17	24	18	0	0	0	0	26	0	3
	TOTAL	130	42	15	27	32	24	0	0	0	1	40	0	6
CASS CO	FATAL	12	4	3	1	6	2	0	0	0	0	4	0	2
	INJURY	533	142	45	189	135	50	30	7	6	10	137	2	30
	DAMAGE	1377	231	37	491	323	173	1	8	1	0	213	0	92
	TOTAL	1922	377	85	681	464	225	31	15	7	10	354	2	124
BELTON	FATAL	3	1	1	1	2	0	0	0	0	0	1	0	1
	INJURY	160	29	5	53	49	16	6	4	3	6	17	0	9
	DAMAGE	428	49	11	155	95	38	0	0	0	0	28	0	35
	TOTAL	591	79	17	209	146	54	6	4	3	6	46	0	45
DREXEL	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	3	0	0	2	0	1	0	0	0	0	0	0	0
	DAMAGE	4	0	1	2	2	1	0	0	0	0	0	0	0
	TOTAL	7	0	1	4	2	2	0	0	0	0	0	0	0
GARDEN CITY	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	2	1	1	1	0	0	0	0	0	0	1	0	0
	DAMAGE	10	3	1	3	2	0	0	0	0	0	2	0	1
	TOTAL	12	4	2	4	2	0	0	0	0	0	3	0	1
HARRISONVILLE	FATAL	2	0	0	0	1	1	0	0	0	0	1	0	0
	INJURY	94	13	4	29	39	11	5	2	1	3	7	1	17
	DAMAGE	317	36	5	111	99	53	1	2	1	0	31	0	37
	TOTAL	413	49	9	140	139	65	6	4	2	3	39	1	54
KANSAS CITY / CAS	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	1	1	0	0	0	0	0	0	0	0	0	0	0
	DAMAGE	3	0	0	0	0	1	0	0	0	0	0	0	0
	TOTAL	4	1	0	0	0	1	0	0	0	0	0	0	0
PECULIAR	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	11	3	3	8	0	2	1	0	0	1	1	0	0
	DAMAGE	65	7	6	26	13	9	0	1	0	0	7	0	0
	TOTAL	76	10	9	34	13	11	1	1	0	1	8	0	0
PLEASANT HILL	FATAL	1	0	0	0	1	0	0	0	0	0	0	0	0
	INJURY	20	2	2	8	6	1	0	0	0	0	3	0	0
	DAMAGE	65	11	3	24	12	8	0	1	0	0	7	0	1
	TOTAL	86	13	5	32	19	9	0	1	0	0	10	0	1
RAYMORE	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	29	6	2	12	7	0	1	0	1	0	6	0	0
	DAMAGE	104	12	0	42	27	8	0	1	0	0	17	0	1
	TOTAL	133	18	2	54	34	8	1	1	1	0	23	0	1

**TABLE 4.0.1**

**2003 MISSOURI TRAFFIC CRASHES  
COUNTY AND CITY SUMMARY<sup>1</sup>**

CITY	CRASH SEVERITY	TOTAL ACCS	SPEED INV	DRINK INV	DRVR UND 21 INV	DRVR 55 + INV	COMM VEH INV	MOTOR- CYCLE INV	SCHOOL BUS INV	BIKE INV	PEDES- TRIAN INV	FIXED OBJECT INV	HAZ- ARD MATL INV	CONSTR/ OTH WK ZONE INV
POP UNDER 1000	FATAL	6	3	2	0	2	1	0	0	0	0	2	0	1
	INJURY	213	87	28	76	34	19	17	1	1	0	102	1	4
	DAMAGE	381	113	10	128	73	55	0	3	0	0	121	0	17
	TOTAL	600	203	40	204	109	75	17	4	1	0	225	1	22
<b>CEDAR CO</b>	FATAL	2	1	0	1	0	0	0	0	0	0	2	0	0
	INJURY	57	18	6	23	12	3	4	1	2	3	24	0	1
	DAMAGE	161	18	8	58	48	21	0	3	0	0	42	0	1
	TOTAL	220	37	14	82	60	24	4	4	2	3	68	0	2
EL DORADO SPRINGS	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	11	1	1	8	2	1	0	0	1	1	0	0	0
	DAMAGE	83	0	3	32	31	10	0	2	0	0	9	0	1
	TOTAL	94	1	4	40	33	11	0	2	1	1	9	0	1
STOCKTON	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	1	0	0	0	0	0	0	0	0	0	0	0	0
	DAMAGE	3	0	0	1	2	0	0	0	0	0	0	0	0
	TOTAL	4	0	0	1	2	0	0	0	0	0	0	0	0
POP UNDER 1000	FATAL	2	1	0	1	0	0	0	0	0	0	2	0	0
	INJURY	45	17	5	15	10	2	4	1	1	2	24	0	1
	DAMAGE	75	18	5	25	15	11	0	1	0	0	33	0	0
	TOTAL	122	36	10	41	25	13	4	2	1	2	59	0	1
<b>CHARITONCO</b>	FATAL	4	2	1	2	2	0	1	0	0	0	2	0	0
	INJURY	35	10	7	10	3	4	0	0	1	1	19	0	0
	DAMAGE	109	22	7	37	24	9	0	0	0	0	41	0	0
	TOTAL	148	34	15	49	29	13	1	0	1	1	62	0	0
SALISBURY	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	6	1	1	1	0	1	0	0	1	1	1	0	0
	DAMAGE	41	3	0	22	11	1	0	0	0	0	8	0	0
	TOTAL	47	4	1	23	11	2	0	0	1	1	9	0	0
POP UNDER 1000	FATAL	4	2	1	2	2	0	1	0	0	0	2	0	0
	INJURY	29	9	6	9	3	3	0	0	0	0	18	0	0
	DAMAGE	68	19	7	15	13	8	0	0	0	0	33	0	0
	TOTAL	101	30	14	26	18	11	1	0	0	0	53	0	0
<b>CHRISTIANCO</b>	FATAL	13	4	1	1	3	2	1	0	1	0	4	0	0
	INJURY	338	101	37	113	84	29	15	0	3	2	111	0	3
	DAMAGE	830	148	29	277	182	98	1	3	0	0	154	0	2
	TOTAL	1181	253	67	391	269	129	17	3	4	2	269	0	5
BILLINGS	FATAL	1	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	5	0	0	1	0	0	0	0	0	0	1	0	0
	DAMAGE	25	2	3	11	7	3	0	0	0	0	5	0	1
	TOTAL	31	2	3	12	7	3	0	0	0	0	6	0	1
CLEVER	FATAL	1	0	0	0	1	0	1	0	0	0	0	0	0
	INJURY	3	0	1	1	1	1	0	0	0	0	0	0	0
	DAMAGE	5	1	0	2	1	1	0	0	0	0	1	0	0
	TOTAL	9	1	1	3	3	2	1	0	0	0	1	0	0
NIXA	FATAL	1	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	46	8	4	16	11	3	1	0	1	0	5	0	0
	DAMAGE	187	17	8	60	49	11	0	2	0	0	25	0	0
	TOTAL	234	25	12	76	60	14	1	2	1	0	30	0	0
OZARK	FATAL	1	0	0	0	0	1	0	0	1	0	0	0	0
	INJURY	88	11	5	39	26	8	2	0	1	0	14	0	2
	DAMAGE	281	26	8	92	70	31	0	0	0	0	28	0	0
	TOTAL	370	37	13	131	96	40	2	0	2	0	42	0	2
SPARTA	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	4	1	0	0	2	1	0	0	0	0	0	0	0
	DAMAGE	8	2	0	2	3	1	0	0	0	0	1	0	0
	TOTAL	12	3	0	2	5	2	0	0	0	0	1	0	0
POP UNDER 1000	FATAL	9	4	1	1	2	1	0	0	0	0	4	0	0
	INJURY	192	81	27	56	44	16	12	0	1	2	91	0	1
	DAMAGE	324	100	10	110	52	51	1	1	0	0	94	0	1
	TOTAL	525	185	38	167	98	68	13	1	1	2	189	0	2
<b>CLARK CO</b>	FATAL	3	0	0	0	2	2	0	0	0	0	0	0	0
	INJURY	46	7	4	9	13	14	0	0	0	0	19	0	0
	DAMAGE	99	12	1	31	35	15	1	0	0	0	25	0	1
	TOTAL	148	19	5	40	50	31	1	0	0	0	44	0	1

**TABLE 4.0.1**

**2003 MISSOURI TRAFFIC CRASHES  
COUNTY AND CITY SUMMARY<sup>1</sup>**

CITY	CRASH SEVERITY	TOTAL ACCS	SPEED INV	DRINK INV	DRVR UND 21 INV	DRVR 55 + INV	COMM VEH INV	MOTOR-CYCLE INV	SCHOOL BUS INV	BIKE INV	PEDES-TRIAN INV	FIXED OBJECT INV	HAZ-ARD MATL INV	CONSTR/OTH WK ZONE INV
KAHOKA	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	6	0	0	2	1	2	0	0	0	0	0	0	0
	DAMAGE	33	2	0	12	14	2	0	0	0	0	6	0	0
	TOTAL	39	2	0	14	15	4	0	0	0	0	6	0	0
POP UNDER 1000	FATAL	3	0	0	0	2	2	0	0	0	0	0	0	0
	INJURY	40	7	4	7	12	12	0	0	0	0	19	0	0
	DAMAGE	66	10	1	19	21	13	1	0	0	0	19	0	1
	TOTAL	109	17	5	26	35	27	1	0	0	0	38	0	1
CLAY CO	FATAL	23	10	2	4	9	2	6	0	0	1	13	0	0
	INJURY	1395	308	93	354	368	106	57	6	9	28	277	0	25
	DAMAGE	4969	672	123	1063	1068	442	19	29	4	5	671	1	133
	TOTAL	6387	990	218	1421	1445	550	82	35	13	34	961	1	158
CLAYCOMO	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	21	7	7	1	2	2	1	0	1	0	11	0	0
	DAMAGE	64	13	0	12	12	8	0	0	0	0	19	0	10
	TOTAL	85	20	7	13	14	10	1	0	1	0	30	0	10
EXCELSIOR SPRINGS / CLA	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	69	11	2	31	21	3	6	0	2	4	18	0	0
	DAMAGE	221	32	3	81	46	18	0	1	1	0	48	0	0
	TOTAL	290	43	5	112	67	21	6	1	3	4	66	0	0
GLADSTONE	FATAL	2	1	0	0	1	0	2	0	0	0	0	0	0
	INJURY	150	27	9	57	51	5	7	3	2	1	14	0	1
	DAMAGE	510	57	11	170	146	13	3	3	0	1	39	0	4
	TOTAL	662	85	20	227	198	18	12	6	2	2	53	0	5
KANSAS CITY / CLA	FATAL	12	6	2	1	5	1	4	0	0	1	7	0	0
	INJURY	574	138	29	94	138	40	22	1	1	18	122	0	5
	DAMAGE	2491	354	60	359	451	168	7	14	2	4	329	1	43
	TOTAL	3077	498	91	454	594	209	33	15	3	23	458	1	48
KEARNEY	FATAL	1	0	0	1	0	0	0	0	0	0	1	0	0
	INJURY	40	8	2	17	14	4	2	0	0	1	3	0	0
	DAMAGE	93	17	2	28	28	16	1	1	0	0	13	0	4
	TOTAL	134	25	4	46	42	20	3	1	0	1	17	0	4
LAWSON / CLA	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	1	0	0	0	1	0	0	0	0	0	1	0	0
	DAMAGE	8	1	0	1	1	0	0	0	0	0	1	0	0
	TOTAL	9	1	0	1	2	0	0	0	0	0	2	0	0
LIBERTY	FATAL	3	1	0	1	1	0	0	0	0	0	1	0	0
	INJURY	206	35	11	73	57	16	8	2	2	3	24	0	8
	DAMAGE	627	59	16	212	141	74	1	7	1	0	90	0	25
	TOTAL	836	95	27	286	199	90	9	9	3	3	115	0	33
NORTH KANSAS CITY	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	108	14	9	11	28	13	1	0	0	1	12	0	1
	DAMAGE	495	32	15	65	138	88	2	1	0	0	43	0	6
	TOTAL	603	46	24	76	166	101	3	1	0	1	55	0	7
PLEASANT VALLEY	FATAL	1	0	0	0	1	0	0	0	0	0	1	0	0
	INJURY	26	2	4	7	9	6	1	0	0	0	5	0	6
	DAMAGE	88	12	3	20	27	10	1	1	0	0	13	0	15
	TOTAL	115	14	7	27	37	16	2	1	0	0	19	0	21
SMITHVILLE	FATAL	1	0	0	0	1	0	0	0	0	0	1	0	0
	INJURY	30	9	2	9	7	1	2	0	1	0	8	0	4
	DAMAGE	85	21	2	29	21	10	0	0	0	0	10	0	25
	TOTAL	116	30	4	38	29	11	2	0	1	0	19	0	29
POP UNDER 1000	FATAL	3	2	0	1	0	1	0	0	0	0	2	0	0
	INJURY	170	57	18	54	40	16	7	0	0	0	59	0	0
	DAMAGE	287	74	11	86	57	37	4	1	0	0	66	0	1
	TOTAL	460	133	29	141	97	54	11	1	0	0	127	0	1
CLINTON CO	FATAL	2	0	1	0	0	0	1	0	0	0	2	0	0
	INJURY	140	47	17	51	26	17	4	0	0	1	70	1	1
	DAMAGE	221	38	7	60	50	25	1	1	0	0	59	1	2
	TOTAL	363	85	25	111	76	42	6	1	0	1	131	2	3
CAMERON / CLI	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	11	2	0	4	2	0	0	0	0	0	3	0	0
	DAMAGE	67	4	0	24	25	6	0	1	0	0	5	0	0
	TOTAL	78	6	0	28	27	6	0	1	0	0	8	0	0

**TABLE 4.0.1**



**2003 MISSOURI TRAFFIC CRASHES  
COUNTY AND CITY SUMMARY<sup>1</sup>**

CITY	CRASH SEVERITY	TOTAL ACCS	SPEED INV	DRINK INV	DRVR UND 21 INV	DRVR 55 + INV	COMM VEH INV	MOTOR- CYCLE INV	SCHOOL BUS INV	BIKE INV	PEDES- TRIAN INV	FIXED OBJECT INV	HAZ- ARD MATL INV	CONSTR/ OTH WK ZONE INV
GOWER	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	2	0	0	0	1	0	1	0	0	0	0	0	0
	DAMAGE	3	0	0	3	2	1	0	0	0	0	0	0	0
	TOTAL	5	0	0	3	3	1	1	0	0	0	0	0	0
LATHROP	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	2	1	0	1	2	0	0	0	0	0	0	0	0
	DAMAGE	6	3	1	5	1	0	0	0	0	0	1	0	0
	TOTAL	8	4	1	6	3	0	0	0	0	0	1	0	0
PLATTSBURG	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	5	0	0	2	2	1	0	0	0	1	0	0	0
	DAMAGE	7	0	0	2	3	0	0	0	0	0	2	0	0
	TOTAL	12	0	0	4	5	1	0	0	0	1	2	0	0
POP UNDER 1000	FATAL	2	0	1	0	0	0	1	0	0	0	2	0	0
	INJURY	120	44	17	44	19	16	3	0	0	0	67	1	1
	DAMAGE	138	31	6	26	19	18	1	0	0	0	51	1	2
	TOTAL	260	75	24	70	38	34	5	0	0	0	120	2	3
COLE CO	FATAL	7	2	1	0	3	0	1	0	0	0	2	0	0
	INJURY	570	82	36	199	162	42	17	1	9	11	121	1	3
	DAMAGE	1550	167	44	492	381	173	4	12	0	0	205	0	8
	TOTAL	2127	251	81	691	546	215	22	13	9	11	328	1	11
JEFFERSON CITY / COL	FATAL	2	0	1	0	1	0	0	0	0	0	0	0	0
	INJURY	392	39	12	141	125	30	8	1	7	8	47	1	2
	DAMAGE	1206	84	21	399	317	128	2	11	0	0	99	0	4
	TOTAL	1600	123	34	540	443	158	10	12	7	8	146	1	6
ST. MARTINS	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	1	0	1	0	0	0	1	0	0	0	0	0	0
	DAMAGE	4	1	0	1	0	1	0	0	0	0	0	0	0
	TOTAL	5	1	1	1	0	1	1	0	0	0	0	0	0
POP UNDER 1000	FATAL	5	2	0	0	2	0	1	0	0	0	2	0	0
	INJURY	177	43	23	58	37	12	8	0	2	3	74	0	1
	DAMAGE	340	82	23	92	64	44	2	1	0	0	106	0	4
	TOTAL	522	127	46	150	103	56	11	1	2	3	182	0	5
COOPER CO	FATAL	7	1	0	2	3	5	1	0	0	0	1	0	0
	INJURY	133	38	13	44	41	17	4	0	2	4	51	0	2
	DAMAGE	402	55	12	90	124	73	0	4	0	0	85	3	11
	TOTAL	542	94	25	136	168	95	5	4	2	4	137	3	13
BOONVILLE	FATAL	1	0	0	0	1	1	0	0	0	0	0	0	0
	INJURY	41	3	3	17	15	0	2	0	2	4	3	0	2
	DAMAGE	198	9	3	56	75	16	0	3	0	0	13	0	6
	TOTAL	240	12	6	73	91	17	2	3	2	4	16	0	8
POP UNDER 1000	FATAL	6	1	0	2	2	4	1	0	0	0	1	0	0
	INJURY	92	35	10	27	26	17	2	0	0	0	48	0	0
	DAMAGE	204	46	9	34	49	57	0	1	0	0	72	3	5
	TOTAL	302	82	19	63	77	78	3	1	0	0	121	3	5
CRAWFORD CO	FATAL	11	5	1	4	5	1	0	0	0	0	6	0	0
	INJURY	240	82	26	72	46	27	7	1	1	4	101	0	2
	DAMAGE	473	114	25	122	113	122	2	0	0	0	120	2	3
	TOTAL	724	201	52	198	164	150	9	1	1	4	227	2	5
BOURBON	FATAL	2	1	0	0	0	0	0	0	0	0	1	0	0
	INJURY	32	6	4	5	7	6	1	0	0	1	11	0	0
	DAMAGE	50	15	2	12	16	13	0	0	0	0	9	0	1
	TOTAL	84	22	6	17	23	19	1	0	0	1	21	0	1
CUBA	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	31	4	0	8	11	3	0	0	1	1	3	0	0
	DAMAGE	98	11	1	24	25	29	0	0	0	0	9	0	1
	TOTAL	129	15	1	32	36	32	0	0	1	1	12	0	1
STEELVILLE	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	11	2	2	5	1	1	0	0	0	0	3	0	0
	DAMAGE	19	0	0	10	6	0	0	0	0	0	0	0	0
	TOTAL	30	2	2	15	7	1	0	0	0	0	3	0	0
SULLIVAN / CRA	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	3	0	0	0	0	0	1	0	0	1	0	0	0
	DAMAGE	12	2	0	3	0	1	0	0	0	0	1	0	0
	TOTAL	15	2	0	3	0	1	1	0	0	1	1	0	0

**TABLE 4.0.1**

**2003 MISSOURI TRAFFIC CRASHES  
COUNTY AND CITY SUMMARY<sup>1</sup>**

CITY	CRASH SEVERITY	TOTAL ACCS	SPEED INV	DRINK INV	DRVR UND 21 INV	DRVR 55 + INV	COMM VEH INV	MOTOR-CYCLE INV	SCHOOL BUS INV	BIKE INV	PEDES-TRIAN INV	FIXED OBJECT INV	HAZ-ARD MATL INV	CONSTR/ OTH WK ZONE INV
POP UNDER 1000	FATAL	9	4	1	4	5	1	0	0	0	0	5	0	0
	INJURY	163	70	20	54	27	17	5	1	0	1	84	0	2
	DAMAGE	294	86	22	73	66	79	2	0	0	0	101	2	1
	TOTAL	466	160	43	131	98	97	7	1	0	1	190	2	3
DADE CO	FATAL	4	1	0	1	0	1	0	0	0	0	1	0	0
	INJURY	35	5	6	11	3	3	2	1	0	1	14	0	0
	DAMAGE	74	11	11	22	17	8	0	0	0	0	26	0	1
	TOTAL	113	17	17	34	20	12	2	1	0	1	41	0	1
GREENFIELD	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	0	0	0	0	0	0	0	0	0	0	0	0	0
	DAMAGE	11	1	1	5	3	2	0	0	0	0	1	0	0
	TOTAL	11	1	1	5	3	2	0	0	0	0	1	0	0
POP UNDER 1000	FATAL	4	1	0	1	0	1	0	0	0	0	1	0	0
	INJURY	35	5	6	11	3	3	2	1	0	1	14	0	0
	DAMAGE	63	10	10	17	14	6	0	0	0	0	25	0	1
	TOTAL	102	16	16	29	17	10	2	1	0	1	40	0	1
DALLAS CO	FATAL	8	6	1	2	2	1	0	0	0	1	4	0	0
	INJURY	130	60	14	42	33	13	7	0	0	2	52	0	0
	DAMAGE	216	68	16	68	57	30	1	5	0	0	56	0	1
	TOTAL	354	134	31	112	92	44	8	5	0	3	112	0	1
BUFFALO	FATAL	1	0	0	1	0	0	0	0	0	1	0	0	0
	INJURY	31	7	1	13	12	2	0	0	0	0	0	0	0
	DAMAGE	61	9	2	23	30	7	0	1	0	0	7	0	0
	TOTAL	93	16	3	37	42	9	0	1	0	1	7	0	0
POP UNDER 1000	FATAL	7	6	1	1	2	1	0	0	0	0	4	0	0
	INJURY	99	53	13	29	21	11	7	0	0	2	52	0	0
	DAMAGE	155	59	14	45	27	23	1	4	0	0	49	0	1
	TOTAL	261	118	28	75	50	35	8	4	0	2	105	0	1
DAVIESS CO	FATAL	4	2	1	1	0	0	0	0	0	0	3	0	0
	INJURY	55	20	5	19	14	3	0	0	1	0	22	0	0
	DAMAGE	140	47	6	27	35	21	0	1	0	0	51	0	3
	TOTAL	199	69	12	47	49	24	0	1	1	0	76	0	3
GALLATIN	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	4	1	0	1	3	0	0	0	0	0	3	0	0
	DAMAGE	19	5	0	5	3	2	0	0	0	0	5	0	0
	TOTAL	23	6	0	6	6	2	0	0	0	0	8	0	0
POP UNDER 1000	FATAL	4	2	1	1	0	0	0	0	0	0	3	0	0
	INJURY	51	19	5	18	11	3	0	0	1	0	19	0	0
	DAMAGE	121	42	6	22	32	19	0	1	0	0	46	0	3
	TOTAL	176	63	12	41	43	22	0	1	1	0	68	0	3
DE KALB CO	FATAL	1	1	0	1	0	0	0	0	0	0	0	0	0
	INJURY	72	22	8	17	18	8	1	1	0	2	34	1	0
	DAMAGE	157	31	11	49	46	14	1	0	0	1	51	0	0
	TOTAL	230	54	19	67	64	22	2	1	0	3	85	1	0
CAMERON / DEK	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	20	6	0	4	7	1	0	0	0	0	4	0	0
	DAMAGE	54	6	3	18	21	5	1	0	0	0	7	0	0
	TOTAL	74	12	3	22	28	6	1	0	0	0	11	0	0
MAYSVILLE	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	1	0	0	1	0	0	0	0	0	0	0	0	0
	DAMAGE	10	0	1	6	4	2	0	0	0	1	0	0	0
	TOTAL	11	0	1	7	4	2	0	0	0	1	0	0	0
POP UNDER 1000	FATAL	1	1	0	1	0	0	0	0	0	0	0	0	0
	INJURY	51	16	8	12	11	7	1	1	0	2	30	1	0
	DAMAGE	93	25	7	25	21	7	0	0	0	0	44	0	0
	TOTAL	145	42	15	38	32	14	1	1	0	2	74	1	0
DENT CO	FATAL	2	1	1	0	1	0	0	0	0	0	1	0	0
	INJURY	106	40	11	39	30	12	4	0	0	2	41	0	0
	DAMAGE	266	50	13	70	62	28	1	1	0	0	66	0	0
	TOTAL	374	91	25	109	93	40	5	1	0	2	108	0	0
SALEM	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	26	3	1	10	15	2	1	0	0	0	3	0	0
	DAMAGE	116	11	3	45	43	7	0	0	0	0	9	0	0
	TOTAL	142	14	4	55	58	9	1	0	0	0	12	0	0

**TABLE 4.0.1**

**2003 MISSOURI TRAFFIC CRASHES  
COUNTY AND CITY SUMMARY<sup>1</sup>**

CITY	CRASH SEVERITY	TOTAL ACCS	SPEED INV	DRINK INV	DRVR UND 21 INV	DRVR 55 + INV	COMM VEH INV	MOTOR-CYCLE INV	SCHOOL BUS INV	BIKE INV	PEDES-TRIAN INV	FIXED OBJECT INV	HAZ-ARD MATL INV	CONSTR/OTH WK ZONE INV
POP UNDER 1000	FATAL	2	1	1	0	1	0	0	0	0	0	1	0	0
	INJURY	80	37	10	29	15	10	3	0	0	2	38	0	0
	DAMAGE	150	39	10	25	19	21	1	1	0	0	57	0	0
	TOTAL	232	77	21	54	35	31	4	1	0	2	96	0	0
DOUGLAS CO	FATAL	5	3	3	1	0	0	0	0	0	0	2	0	0
	INJURY	78	27	9	28	17	13	1	0	0	1	35	0	1
	DAMAGE	163	23	11	50	44	26	0	2	0	0	51	0	2
	TOTAL	246	53	23	79	61	39	1	2	0	1	88	0	3
AVA	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	10	4	1	3	6	3	0	0	0	0	1	0	0
	DAMAGE	64	4	2	25	26	8	0	0	0	0	8	0	1
	TOTAL	74	8	3	28	32	11	0	0	0	0	9	0	1
POP UNDER 1000	FATAL	5	3	3	1	0	0	0	0	0	0	2	0	0
	INJURY	68	23	8	25	11	10	1	0	0	1	34	0	1
	DAMAGE	99	19	9	25	18	18	0	2	0	0	43	0	1
	TOTAL	172	45	20	51	29	28	1	2	0	1	79	0	2
DUNKLIN CO	FATAL	14	8	3	3	4	4	0	0	0	0	6	0	0
	INJURY	251	57	29	80	79	16	3	1	7	2	63	0	1
	DAMAGE	470	48	21	133	154	43	0	3	1	0	65	0	2
	TOTAL	735	113	53	216	237	63	3	4	8	2	134	0	3
CAMPBELL	FATAL	1	1	1	1	0	1	0	0	0	0	1	0	0
	INJURY	16	1	2	6	7	1	0	1	1	0	2	0	0
	DAMAGE	22	1	3	6	4	1	0	0	0	0	3	0	0
	TOTAL	39	3	6	13	11	3	0	1	1	0	6	0	0
CLARKTON	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	1	1	1	0	0	0	0	0	0	0	1	0	0
	DAMAGE	7	2	0	4	1	0	0	0	0	0	1	0	0
	TOTAL	8	3	1	4	1	0	0	0	0	0	2	0	0
KENNETT	FATAL	1	0	1	0	0	0	0	0	0	0	0	0	0
	INJURY	106	13	5	38	38	4	3	0	6	1	12	0	1
	DAMAGE	240	12	5	79	82	18	0	0	1	0	18	0	1
	TOTAL	347	25	11	117	120	22	3	0	7	1	30	0	2
MALDEN	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	17	6	3	3	8	0	0	0	0	0	4	0	0
	DAMAGE	42	0	2	13	20	2	0	1	0	0	1	0	0
	TOTAL	59	6	5	16	28	2	0	1	0	0	5	0	0
SENATH	FATAL	1	0	0	0	1	1	0	0	0	0	0	0	0
	INJURY	1	0	0	1	0	0	0	0	0	0	0	0	0
	DAMAGE	12	0	1	3	2	0	0	0	0	0	0	0	0
	TOTAL	14	0	1	4	3	1	0	0	0	0	0	0	0
POP UNDER 1000	FATAL	11	7	1	2	3	2	0	0	0	0	5	0	0
	INJURY	110	36	18	32	26	11	0	0	0	1	44	0	0
	DAMAGE	147	33	10	28	45	22	0	2	0	0	42	0	1
	TOTAL	268	76	29	62	74	35	0	2	0	1	91	0	1
FRANKLIN CO	FATAL	32	19	10	9	8	8	3	0	0	1	14	0	2
	INJURY	806	284	75	278	204	78	34	8	6	18	254	3	28
	DAMAGE	2239	521	86	717	544	293	4	18	4	1	499	1	44
	TOTAL	3077	824	171	1004	756	379	41	26	10	20	767	4	74
GERALD	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	1	0	0	0	0	0	0	0	0	0	1	0	0
	DAMAGE	2	0	0	1	0	0	0	0	0	0	1	0	0
	TOTAL	3	0	0	1	0	0	0	0	0	0	2	0	0
NEW HAVEN	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	4	1	0	1	3	0	0	0	0	0	0	0	0
	DAMAGE	28	2	1	8	7	1	0	0	0	0	5	0	0
	TOTAL	32	3	1	9	10	1	0	0	0	0	5	0	0
PACIFIC	FATAL	1	1	1	0	0	1	0	0	0	0	0	0	0
	INJURY	51	15	1	11	14	4	2	1	1	1	14	1	2
	DAMAGE	203	47	4	63	42	23	1	0	0	0	31	0	3
	TOTAL	255	63	6	74	56	28	3	1	1	1	45	1	5
ST. CLAIR	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	40	8	2	12	14	2	0	0	0	1	10	1	0
	DAMAGE	183	49	5	52	49	19	1	1	0	0	39	0	1
	TOTAL	223	57	7	64	63	21	1	1	0	1	49	1	1

**TABLE 4.0.1**

**2003 MISSOURI TRAFFIC CRASHES  
COUNTY AND CITY SUMMARY<sup>1</sup>**

CITY	CRASH SEVERITY	TOTAL ACCS	SPEED INV	DRINK INV	DRVR UND 21 INV	DRVR 55 + INV	COMM VEH INV	MOTOR-CYCLE INV	SCHOOL BUS INV	BIKE INV	PEDES-TRIAN INV	FIXED OBJECT INV	HAZ-ARD MATL INV	CONSTR/ OTH WK ZONE INV
SULLIVAN / FRA	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	26	6	2	4	10	4	1	1	1	1	0	0	1
	DAMAGE	150	14	1	46	52	22	0	2	0	0	7	0	2
	TOTAL	176	20	3	50	62	26	1	3	1	1	7	0	3
UNION	FATAL	3	1	1	1	0	2	1	0	0	0	0	0	1
	INJURY	93	13	3	43	27	6	5	1	0	1	7	0	6
	DAMAGE	298	41	11	105	70	27	0	1	1	0	38	0	7
	TOTAL	394	55	15	149	97	35	6	2	1	1	45	0	14
WASHINGTON	FATAL	2	1	1	0	1	0	1	0	0	0	1	0	1
	INJURY	116	15	7	49	44	9	1	1	4	8	6	0	3
	DAMAGE	401	39	14	139	120	51	0	6	3	0	30	0	5
	TOTAL	519	55	22	188	165	60	2	7	7	8	37	0	9
POP UNDER 1000	FATAL	26	16	7	8	7	5	1	0	0	1	13	0	0
	INJURY	475	226	60	158	92	53	25	4	0	6	216	1	16
	DAMAGE	974	329	50	303	204	150	2	8	0	1	348	1	26
	TOTAL	1475	571	117	469	303	208	28	12	0	8	577	2	42
GASCONADE CO	FATAL	4	3	1	3	1	0	0	1	0	0	2	0	0
	INJURY	108	37	14	44	25	7	5	0	1	2	46	0	0
	DAMAGE	286	56	19	84	78	30	0	3	0	0	77	1	1
	TOTAL	398	96	34	131	104	37	5	4	1	2	125	1	1
HERMANN	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	10	1	2	2	1	0	0	0	1	1	1	0	0
	DAMAGE	75	4	0	19	31	6	0	1	0	0	10	0	0
	TOTAL	85	5	2	21	32	6	0	1	1	1	11	0	0
OWENSVILLE	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	16	0	2	9	5	0	1	0	0	1	1	0	0
	DAMAGE	63	6	2	20	20	7	0	1	0	0	4	0	0
	TOTAL	79	6	4	29	25	7	1	1	0	1	5	0	0
POP UNDER 1000	FATAL	4	3	1	3	1	0	0	1	0	0	2	0	0
	INJURY	82	36	10	33	19	7	4	0	0	0	44	0	0
	DAMAGE	148	46	17	45	27	17	0	1	0	0	63	1	1
	TOTAL	234	85	28	81	47	24	4	2	0	0	109	1	1
GENTRY CO	FATAL	2	1	1	1	0	0	0	0	0	0	1	0	0
	INJURY	43	16	3	15	10	2	3	0	0	1	21	0	1
	DAMAGE	63	10	2	23	14	6	0	2	0	0	13	0	1
	TOTAL	108	27	6	39	24	8	3	2	0	1	35	0	2
ALBANY	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	5	1	0	2	0	0	0	0	0	1	2	0	0
	DAMAGE	8	0	0	3	0	1	0	0	0	0	2	0	0
	TOTAL	13	1	0	5	0	1	0	0	0	1	4	0	0
KING CITY	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	2	0	0	1	1	0	0	0	0	0	0	0	0
	DAMAGE	8	1	0	5	5	1	0	1	0	0	1	0	0
	TOTAL	10	1	0	6	6	1	0	1	0	0	1	0	0
STANBERRY	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	1	1	0	1	0	0	0	0	0	0	1	0	0
	DAMAGE	8	0	0	5	2	0	0	0	0	0	0	0	0
	TOTAL	9	1	0	6	2	0	0	0	0	0	1	0	0
POP UNDER 1000	FATAL	2	1	1	1	0	0	0	0	0	0	1	0	0
	INJURY	35	14	3	11	9	2	3	0	0	0	18	0	1
	DAMAGE	39	9	2	10	7	4	0	1	0	0	10	0	1
	TOTAL	76	24	6	22	16	6	3	1	0	0	29	0	2
GREENE CO	FATAL	35	14	6	13	12	8	3	1	1	5	10	1	0
	INJURY	2973	424	166	992	857	187	72	11	40	56	361	2	12
	DAMAGE	5971	699	203	1943	1627	528	13	29	6	2	688	4	29
	TOTAL	8979	1137	375	2948	2496	723	88	41	47	63	1059	7	41
ASH GROVE	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	1	0	0	0	0	0	0	0	0	0	0	0	0
	DAMAGE	4	0	0	2	2	0	0	0	0	0	0	0	0
	TOTAL	5	0	0	2	2	0	0	0	0	0	0	0	0
BATTLEFIELD	FATAL	1	1	0	0	0	0	0	0	0	1	0	0	0
	INJURY	5	2	0	3	1	0	0	0	0	0	0	0	0
	DAMAGE	2	0	0	0	1	1	0	0	0	0	0	0	0
	TOTAL	8	3	0	3	2	1	0	0	0	1	0	0	0

**TABLE 4.0.1**

**2003 MISSOURI TRAFFIC CRASHES  
COUNTY AND CITY SUMMARY<sup>1</sup>**

CITY	CRASH SEVERITY	TOTAL ACCS	SPEED INV	DRINK INV	DRVR UND 21 INV	DRVR 55 + INV	COMM VEH INV	MOTOR-CYCLE INV	SCHOOL BUS INV	BIKE INV	PEDES-TRIAN INV	FIXED OBJECT INV	HAZ-ARD MATL INV	CONSTR/OTH WK ZONE INV
FAIR GROVE	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	0	0	0	0	0	0	0	0	0	0	0	0	0
	DAMAGE	12	1	1	4	3	0	0	0	0	0	4	0	1
	TOTAL	12	1	1	4	3	0	0	0	0	0	4	0	1
REPUBLIC	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	51	9	2	19	20	4	0	2	0	0	6	0	2
	DAMAGE	184	29	2	69	54	13	0	2	0	0	16	0	1
	TOTAL	235	38	4	88	74	17	0	4	0	0	22	0	3
ROGERSVILLE / GRE	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	1	0	0	0	0	0	0	0	0	0	1	0	0
	DAMAGE	0	0	0	0	0	0	0	0	0	0	0	0	0
	TOTAL	1	0	0	0	0	0	0	0	0	0	1	0	0
SPRINGFIELD	FATAL	14	4	1	3	6	5	2	0	0	3	2	1	0
	INJURY	2412	260	104	812	740	120	52	8	36	53	143	1	10
	DAMAGE	4985	470	160	1646	1401	364	11	21	6	2	435	2	22
	TOTAL	7411	734	265	2461	2147	489	65	29	42	58	580	4	32
STRAFFORD	FATAL	1	0	0	0	1	1	0	0	0	0	0	0	0
	INJURY	12	4	0	2	4	4	0	0	0	0	1	0	0
	DAMAGE	43	4	0	12	13	14	0	0	0	0	9	0	0
	TOTAL	56	8	0	14	18	19	0	0	0	0	10	0	0
WILLARD	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	10	1	0	2	6	3	0	0	1	0	1	0	0
	DAMAGE	21	3	0	10	6	0	0	0	0	0	4	0	0
	TOTAL	31	4	0	12	12	3	0	0	1	0	5	0	0
POP UNDER 1000	FATAL	19	9	5	10	5	2	1	1	1	1	8	0	0
	INJURY	481	148	60	154	86	56	20	1	3	3	209	1	0
	DAMAGE	720	192	40	200	147	136	2	6	0	0	220	2	5
	TOTAL	1220	349	105	364	238	194	23	8	4	4	437	3	5
GRUNDY CO	FATAL	1	0	0	0	1	1	0	0	0	0	0	0	0
	INJURY	56	19	6	22	14	8	1	0	1	1	15	0	7
	DAMAGE	182	31	7	65	60	18	0	2	0	0	34	0	18
	TOTAL	239	50	13	87	75	27	1	2	1	1	49	0	25
TRENTON	FATAL	1	0	0	0	1	1	0	0	0	0	0	0	0
	INJURY	23	3	1	8	8	4	1	0	1	1	1	0	7
	DAMAGE	145	14	7	58	51	14	0	1	0	0	22	0	18
	TOTAL	169	17	8	66	60	19	1	1	1	1	23	0	25
POP UNDER 1000	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	33	16	5	14	6	4	0	0	0	0	14	0	0
	DAMAGE	37	17	0	7	9	4	0	1	0	0	12	0	0
	TOTAL	70	33	5	21	15	8	0	1	0	0	26	0	0
HARRISON CO	FATAL	3	1	1	0	2	0	0	0	0	1	0	0	0
	INJURY	81	24	6	26	17	13	1	0	1	0	28	0	1
	DAMAGE	164	44	6	40	44	30	1	1	0	0	44	0	2
	TOTAL	248	69	13	66	63	43	2	1	1	1	72	0	3
BETHANY	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	15	2	0	5	8	2	0	0	0	0	2	0	1
	DAMAGE	54	8	3	20	19	4	0	0	0	0	12	0	0
	TOTAL	69	10	3	25	27	6	0	0	0	0	14	0	1
POP UNDER 1000	FATAL	3	1	1	0	2	0	0	0	0	1	0	0	0
	INJURY	66	22	6	21	9	11	1	0	1	0	26	0	0
	DAMAGE	110	36	3	20	25	26	1	1	0	0	32	0	2
	TOTAL	179	59	10	41	36	37	2	1	1	1	58	0	2
HENRY CO	FATAL	9	3	4	1	4	0	2	0	0	1	2	0	0
	INJURY	143	40	9	40	41	11	6	1	1	3	57	0	0
	DAMAGE	414	87	15	118	128	42	2	1	0	0	113	0	0
	TOTAL	566	130	28	159	173	53	10	2	1	4	172	0	0
CLINTON	FATAL	3	1	0	0	3	0	1	0	0	0	0	0	0
	INJURY	51	8	1	19	22	3	1	1	1	1	7	0	0
	DAMAGE	219	24	0	79	77	19	0	1	0	0	26	0	0
	TOTAL	273	33	1	98	102	22	2	2	1	1	33	0	0
WINDSOR	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	3	1	1	1	1	0	0	0	0	0	1	0	0
	DAMAGE	34	7	2	10	13	2	0	0	0	0	4	0	0
	TOTAL	37	8	3	11	14	2	0	0	0	0	5	0	0

**TABLE 4.0.1**

**2003 MISSOURI TRAFFIC CRASHES  
COUNTY AND CITY SUMMARY<sup>1</sup>**

CITY	CRASH SEVERITY	TOTAL ACCS	SPEED INV	DRINK INV	DRVR UND 21 INV	DRVR 55 + INV	COMM VEH INV	MOTOR-CYCLE INV	SCHOOL BUS INV	BIKE INV	PEDES-TRIAN INV	FIXED OBJECT INV	HAZ-ARD MATL INV	CONSTR/ OTH WK ZONE INV
POP UNDER 1000	FATAL	6	2	4	1	1	0	1	0	0	1	2	0	0
	INJURY	89	31	7	20	18	8	5	0	0	2	49	0	0
	DAMAGE	161	56	13	29	38	21	2	0	0	0	83	0	0
	TOTAL	256	89	24	50	57	29	8	0	0	3	134	0	0
HICKORY CO	FATAL	7	3	3	0	4	0	1	0	0	0	3	0	0
	INJURY	51	27	10	11	22	2	2	0	0	0	21	0	0
	DAMAGE	54	27	10	16	17	5	0	0	0	0	27	0	0
	TOTAL	112	57	23	27	43	7	3	0	0	0	51	0	0
POP UNDER 1000	FATAL	7	3	3	0	4	0	1	0	0	0	3	0	0
	INJURY	51	27	10	11	22	2	2	0	0	0	21	0	0
	DAMAGE	54	27	10	16	17	5	0	0	0	0	27	0	0
	TOTAL	112	57	23	27	43	7	3	0	0	0	51	0	0
HOLT CO	FATAL	1	0	0	0	1	0	0	0	0	0	0	0	0
	INJURY	39	10	6	12	5	6	2	0	0	0	22	0	1
	DAMAGE	90	26	2	22	18	23	1	0	0	0	36	0	5
	TOTAL	130	36	8	34	24	29	3	0	0	0	58	0	6
MOUND CITY	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	2	0	0	1	1	1	0	0	0	0	0	0	0
	DAMAGE	5	1	1	3	2	2	0	0	0	0	1	0	0
	TOTAL	7	1	1	4	3	3	0	0	0	0	1	0	0
POP UNDER 1000	FATAL	1	0	0	0	1	0	0	0	0	0	0	0	0
	INJURY	37	10	6	11	4	5	2	0	0	0	22	0	1
	DAMAGE	85	25	1	19	16	21	1	0	0	0	35	0	5
	TOTAL	123	35	7	30	21	26	3	0	0	0	57	0	6
HOWARD CO	FATAL	3	1	1	0	0	0	0	0	0	0	3	0	0
	INJURY	48	15	9	16	8	3	2	1	1	2	18	0	0
	DAMAGE	110	29	8	30	30	7	1	0	0	0	36	0	1
	TOTAL	161	45	18	46	38	10	3	1	1	2	57	0	1
FAYETTE	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	7	1	1	4	3	1	0	0	1	1	1	0	0
	DAMAGE	23	1	4	6	7	1	0	0	0	0	3	0	1
	TOTAL	30	2	5	10	10	2	0	0	1	1	4	0	1
GLASGOW	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	1	0	0	0	0	0	0	0	0	1	0	0	0
	DAMAGE	17	4	0	7	6	2	0	0	0	0	1	0	0
	TOTAL	18	4	0	7	6	2	0	0	0	1	1	0	0
NEW FRANKLIN	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	0	0	0	0	0	0	0	0	0	0	0	0	0
	DAMAGE	4	0	0	1	2	0	0	0	0	0	0	0	0
	TOTAL	4	0	0	1	2	0	0	0	0	0	0	0	0
POP UNDER 1000	FATAL	3	1	1	0	0	0	0	0	0	0	3	0	0
	INJURY	40	14	8	12	5	2	2	1	0	0	17	0	0
	DAMAGE	66	24	4	16	15	4	1	0	0	0	32	0	0
	TOTAL	109	39	13	28	20	6	3	1	0	0	52	0	0
HOWELL CO	FATAL	13	3	2	2	5	3	0	0	0	4	1	0	2
	INJURY	255	73	28	80	66	20	9	2	4	4	79	0	7
	DAMAGE	635	108	23	211	189	72	4	7	1	0	116	0	16
	TOTAL	903	184	53	293	260	95	13	9	5	8	196	0	25
MOUNTAIN VIEW	FATAL	2	0	1	0	0	0	0	0	0	1	0	0	0
	INJURY	10	2	0	4	2	0	0	0	0	1	3	0	0
	DAMAGE	36	6	0	14	13	2	0	0	0	0	3	0	0
	TOTAL	48	8	1	18	15	2	0	0	0	2	6	0	0
WEST PLAINS	FATAL	2	1	0	1	1	0	0	0	0	1	0	0	0
	INJURY	99	11	7	33	32	5	4	1	4	3	11	0	2
	DAMAGE	354	33	12	129	116	26	3	4	1	0	32	0	1
	TOTAL	455	45	19	163	149	31	7	5	5	4	43	0	3
WILLOW SPRINGS	FATAL	1	0	0	1	1	0	0	0	0	0	0	0	1
	INJURY	10	1	0	3	5	3	0	0	0	0	2	0	4
	DAMAGE	41	5	0	9	12	7	0	1	0	0	8	0	10
	TOTAL	52	6	0	13	18	10	0	1	0	0	10	0	15
POP UNDER 1000	FATAL	8	2	1	0	3	3	0	0	0	2	1	0	1
	INJURY	136	59	21	40	27	12	5	1	0	0	63	0	1
	DAMAGE	204	64	11	59	48	37	1	2	0	0	73	0	5
	TOTAL	348	125	33	99	78	52	6	3	0	2	137	0	7

**TABLE 4.0.1**

**2003 MISSOURI TRAFFIC CRASHES  
COUNTY AND CITY SUMMARY<sup>1</sup>**

CITY	CRASH SEVERITY	TOTAL ACCS	SPEED INV	DRINK INV	DRVR UND 21 INV	DRVR 55 + INV	COMM VEH INV	MOTOR-CYCLE INV	SCHOOL BUS INV	BIKE INV	PEDES-TRIAN INV	FIXED OBJECT INV	HAZ-ARD MATL INV	CONSTR/OTH WK ZONE INV
IRONCO	FATAL	9	3	5	0	2	0	1	0	0	0	4	0	0
	INJURY	97	34	9	31	18	4	3	0	1	1	54	1	0
	DAMAGE	108	23	8	27	22	14	0	0	1	1	35	0	0
	TOTAL	214	60	22	58	42	18	4	0	2	2	93	1	0
IRONTON	FATAL	1	0	0	0	1	0	0	0	0	0	0	0	0
	INJURY	4	1	1	2	2	0	0	0	0	0	0	0	0
	DAMAGE	15	0	0	4	3	0	0	0	0	0	2	0	0
	TOTAL	20	1	1	6	6	0	0	0	0	0	2	0	0
POP UNDER 1000	FATAL	8	3	5	0	1	0	1	0	0	0	4	0	0
	INJURY	93	33	8	29	16	4	3	0	1	1	54	1	0
	DAMAGE	93	23	8	23	19	14	0	0	1	1	33	0	0
	TOTAL	194	59	21	52	36	18	4	0	2	2	91	1	0
JACKSONCO	FATAL	76	31	28	12	18	10	8	0	2	10	21	0	3
	INJURY	6215	1324	399	1359	1482	387	177	32	92	245	970	2	236
	DAMAGE	22988	3220	663	3796	4569	1873	59	182	20	17	2643	6	782
	TOTAL	29279	4575	1090	5167	6069	2270	244	214	114	272	3634	8	1021
BLUE SPRINGS	FATAL	5	2	2	0	3	0	1	0	0	0	1	0	0
	INJURY	288	56	21	116	55	18	10	0	7	11	45	0	6
	DAMAGE	1064	171	31	388	233	95	4	10	2	0	115	0	20
	TOTAL	1357	229	54	504	291	113	15	10	9	11	161	0	26
BUCKNER	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	5	0	0	2	1	0	0	0	0	1	0	0	0
	DAMAGE	27	2	4	10	8	4	1	1	0	0	5	0	2
	TOTAL	32	2	4	12	9	4	1	1	0	1	5	0	2
GRAIN VALLEY	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	20	9	3	5	4	0	0	0	0	0	2	0	0
	DAMAGE	102	14	4	38	14	24	0	3	0	0	16	0	1
	TOTAL	122	23	7	43	18	24	0	3	0	0	18	0	1
GRANDVIEW	FATAL	3	0	1	0	1	0	0	0	1	0	0	0	0
	INJURY	134	36	15	36	35	9	7	2	4	2	33	0	1
	DAMAGE	365	52	17	76	75	38	1	3	2	0	58	1	4
	TOTAL	502	88	33	112	111	47	8	5	7	2	91	1	5
GREENWOOD	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	0	0	0	0	0	0	0	0	0	0	0	0	0
	DAMAGE	21	0	0	8	7	2	0	0	0	0	5	0	0
	TOTAL	21	0	0	8	7	2	0	0	0	0	5	0	0
INDEPENDENCE	FATAL	11	3	4	3	4	2	2	0	0	0	4	0	0
	INJURY	924	192	87	312	264	53	32	5	18	15	139	0	3
	DAMAGE	2815	452	132	801	747	179	10	10	4	1	342	0	22
	TOTAL	3750	647	223	1116	1015	234	44	15	22	16	485	0	25
KANSAS CITY / JAC	FATAL	46	20	15	7	9	8	5	0	1	10	11	0	3
	INJURY	3988	840	225	572	877	249	86	19	53	204	580	2	193
	DAMAGE	15532	2104	370	1479	2721	1252	34	130	10	15	1658	3	568
	TOTAL	19566	2964	610	2058	3607	1509	125	149	64	229	2249	5	764
LAKE LOTAWANA	FATAL	1	1	1	1	0	0	0	0	0	0	0	0	0
	INJURY	17	8	2	6	4	1	1	0	1	0	3	0	0
	DAMAGE	49	16	1	10	10	4	0	0	0	0	20	0	0
	TOTAL	67	25	4	17	14	5	1	0	1	0	23	0	0
LEE'S SUMMIT	FATAL	3	1	2	0	0	0	0	0	0	0	2	0	0
	INJURY	399	76	17	153	107	31	21	3	6	5	66	0	23
	DAMAGE	1872	211	42	661	459	171	4	11	2	1	197	1	115
	TOTAL	2274	288	61	814	566	202	25	14	8	6	265	1	138
OAK GROVE	FATAL	1	0	0	0	1	0	0	0	0	0	0	0	0
	INJURY	19	5	0	9	3	2	2	0	0	1	6	0	0
	DAMAGE	134	18	3	40	36	14	0	1	0	0	16	0	1
	TOTAL	154	23	3	49	40	16	2	1	0	1	22	0	1
RAYTOWN	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	217	34	12	71	81	7	7	2	1	4	20	0	7
	DAMAGE	496	55	29	141	180	30	2	7	0	0	55	0	20
	TOTAL	713	89	41	212	261	37	9	9	1	4	75	0	27
SUGAR CREEK	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	12	3	2	1	2	1	0	0	0	1	6	0	0
	DAMAGE	35	4	3	9	5	5	0	0	0	0	8	0	7
	TOTAL	47	7	5	10	7	6	0	0	0	1	14	0	7

**TABLE 4.0.1**

**2003 MISSOURI TRAFFIC CRASHES  
COUNTY AND CITY SUMMARY<sup>1</sup>**

CITY	CRASH SEVERITY	TOTAL ACCS	SPEED INV	DRINK INV	DRVR UND 21 INV	DRVR 55 + INV	COMM VEH INV	MOTOR-CYCLE INV	SCHOOL BUS INV	BIKE INV	PEDES-TRIAN INV	FIXED OBJECT INV	HAZ-ARD MATL INV	CONSTR/OTH WK ZONE INV
POP UNDER 1000	FATAL	6	4	3	1	0	0	0	0	0	0	3	0	0
	INJURY	192	65	15	76	49	16	11	1	2	1	70	0	3
	DAMAGE	476	121	27	135	74	55	3	6	0	0	148	1	22
	TOTAL	674	190	45	212	123	71	14	7	2	1	221	1	25
JASPER CO	FATAL	22	5	4	7	6	3	1	0	1	2	8	0	1
	INJURY	1055	136	76	348	312	82	24	1	25	23	163	0	30
	DAMAGE	2510	273	91	732	714	257	5	12	3	1	278	1	77
	TOTAL	3587	414	171	1087	1032	342	30	13	29	26	449	1	108
CARL JUNCTION	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	16	3	0	8	6	2	1	0	1	1	1	0	0
	DAMAGE	44	9	0	14	11	3	0	1	0	0	5	0	0
	TOTAL	60	12	0	22	17	5	1	1	1	1	6	0	0
CARTERVILLE	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	3	1	1	1	0	0	0	0	0	1	1	0	0
	DAMAGE	12	3	2	5	1	3	0	1	0	0	1	0	0
	TOTAL	15	4	3	6	1	3	0	1	0	1	2	0	0
CARTHAGE	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	93	16	7	34	19	6	8	1	3	2	13	0	1
	DAMAGE	207	23	13	72	49	13	1	0	0	0	26	0	2
	TOTAL	300	39	20	106	68	19	9	1	3	2	39	0	3
DUENWEG	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	4	0	0	1	1	0	0	0	0	0	1	0	0
	DAMAGE	2	0	1	0	1	0	0	0	0	0	1	0	0
	TOTAL	6	0	1	1	2	0	0	0	0	0	2	0	0
DUQUESNE	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	7	1	2	0	3	0	0	0	0	0	1	0	0
	DAMAGE	25	1	1	9	5	3	0	0	0	0	2	0	0
	TOTAL	32	2	3	9	8	3	0	0	0	0	3	0	0
JASPER	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	1	0	0	0	1	0	0	0	0	1	0	0	0
	DAMAGE	4	0	0	2	0	1	0	0	0	0	1	0	0
	TOTAL	5	0	0	2	1	1	0	0	0	1	1	0	0
JOPLIN / JAS	FATAL	6	2	1	2	2	0	0	0	0	1	1	0	0
	INJURY	560	33	37	185	175	35	8	0	18	16	47	0	8
	DAMAGE	1446	94	38	440	452	102	3	8	3	1	95	1	15
	TOTAL	2012	129	76	627	629	137	11	8	21	18	143	1	23
SARCOXIE	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	2	0	0	1	0	0	0	0	0	1	0	0	0
	DAMAGE	2	1	0	0	1	0	0	0	0	0	0	0	0
	TOTAL	4	1	0	1	1	0	0	0	0	1	0	0	0
WEBB CITY	FATAL	1	0	0	0	1	0	0	0	0	0	0	0	0
	INJURY	68	11	2	25	18	2	1	0	1	1	8	0	0
	DAMAGE	274	47	5	91	73	21	1	1	0	0	15	0	1
	TOTAL	343	58	7	116	92	23	2	1	1	1	23	0	1
POP UNDER 1000	FATAL	15	3	3	5	3	3	1	0	1	1	7	0	1
	INJURY	301	71	27	93	89	37	6	0	2	0	91	0	21
	DAMAGE	494	95	31	99	121	111	0	1	0	0	132	0	59
	TOTAL	810	169	61	197	213	151	7	1	3	1	230	0	81
JEFFERSON CO	FATAL	40	16	11	5	12	3	5	0	0	4	20	0	0
	INJURY	1579	464	174	559	323	114	59	8	7	27	497	0	23
	DAMAGE	3885	892	146	1263	831	342	7	23	1	0	819	3	68
	TOTAL	5504	1372	331	1827	1166	459	71	31	8	31	1336	3	91
ARNOLD	FATAL	3	0	1	0	1	0	0	0	0	0	2	0	0
	INJURY	186	24	11	78	49	11	8	1	3	5	24	0	2
	DAMAGE	593	68	18	211	132	39	1	1	0	0	66	2	4
	TOTAL	782	92	30	289	182	50	9	2	3	5	92	2	6
BYRNE'S MILL	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	32	13	0	12	9	1	0	0	0	0	6	0	2
	DAMAGE	54	10	1	19	11	6	0	1	0	0	4	0	2
	TOTAL	86	23	1	31	20	7	0	1	0	0	10	0	4
CRYSTAL CITY	FATAL	1	0	0	0	1	0	0	0	0	0	0	0	0
	INJURY	37	5	0	11	12	6	1	0	0	2	3	0	0
	DAMAGE	132	20	1	44	42	7	0	0	0	0	13	0	1
	TOTAL	170	25	1	55	55	13	1	0	0	2	16	0	1

**TABLE 4.0.1**



**2003 MISSOURI TRAFFIC CRASHES  
COUNTY AND CITY SUMMARY<sup>1</sup>**

CITY	CRASH SEVERITY	TOTAL ACCS	SPEED INV	DRINK INV	DRVR UND 21 INV	DRVR 55 + INV	COMM VEH INV	MOTOR-CYCLE INV	SCHOOL BUS INV	BIKE INV	PEDES-TRIAN INV	FIXED OBJECT INV	HAZ-ARD MATL INV	CONSTR/OTH WK ZONE INV
DE SOTO	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	49	8	4	18	9	3	2	0	0	4	7	0	0
	DAMAGE	151	24	4	51	38	12	0	1	1	0	19	0	2
	TOTAL	200	32	8	69	47	15	2	1	1	4	26	0	2
FESTUS	FATAL	2	0	0	0	2	0	0	0	0	0	2	0	0
	INJURY	91	31	3	34	27	9	4	0	0	2	19	0	0
	DAMAGE	335	63	6	113	115	35	0	3	0	0	49	0	2
	TOTAL	428	94	9	147	144	44	4	3	0	2	70	0	2
HERCULANEUM	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	21	6	2	7	5	2	0	0	0	0	3	0	1
	DAMAGE	115	24	5	32	36	16	0	2	0	0	25	0	1
	TOTAL	136	30	7	39	41	18	0	2	0	0	28	0	2
HILLSBORO	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	29	7	1	16	6	0	0	0	0	1	6	0	0
	DAMAGE	135	18	1	52	30	8	0	2	0	0	13	0	2
	TOTAL	164	25	2	68	36	8	0	2	0	1	19	0	2
PEVELY	FATAL	1	1	0	0	0	0	0	0	0	0	1	0	0
	INJURY	77	23	11	22	16	9	0	0	0	4	23	0	0
	DAMAGE	178	49	4	44	31	34	0	0	0	0	59	1	2
	TOTAL	256	73	15	66	47	43	0	0	0	4	83	1	2
POP UNDER 1000	FATAL	33	15	10	5	8	3	5	0	0	4	15	0	0
	INJURY	1056	346	142	361	190	73	43	7	4	9	406	0	18
	DAMAGE	2192	616	106	697	396	185	6	13	0	0	571	0	52
	TOTAL	3281	977	258	1063	594	261	54	20	4	13	992	0	70
JOHNSON CO	FATAL	15	5	3	2	4	2	1	0	0	1	5	0	0
	INJURY	301	109	38	104	68	16	17	0	2	4	123	0	0
	DAMAGE	909	186	53	294	183	58	4	5	1	0	199	0	3
	TOTAL	1225	300	94	400	255	76	22	5	3	5	327	0	3
HOLDEN	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	2	0	0	0	1	0	2	0	0	0	0	0	0
	DAMAGE	16	3	1	9	3	1	0	0	0	0	0	0	0
	TOTAL	18	3	1	9	4	1	2	0	0	0	0	0	0
KNOB NOSTER	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	16	6	2	2	5	0	2	0	1	0	7	0	0
	DAMAGE	34	5	2	6	8	1	0	0	0	0	5	0	0
	TOTAL	50	11	4	8	13	1	2	0	1	0	12	0	0
WARRENSBURG	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	68	13	7	36	11	0	3	0	1	3	11	0	0
	DAMAGE	411	47	20	161	98	20	2	2	1	0	30	0	1
	TOTAL	479	60	27	197	109	20	5	2	2	3	41	0	1
POP UNDER 1000	FATAL	15	5	3	2	4	2	1	0	0	1	5	0	0
	INJURY	215	90	29	66	51	16	10	0	0	1	105	0	0
	DAMAGE	448	131	30	118	74	36	2	3	0	0	164	0	2
	TOTAL	678	226	62	186	129	54	13	3	0	2	274	0	2
KNOX CO	FATAL	1	0	0	0	0	0	0	0	0	0	1	0	0
	INJURY	20	8	5	6	1	1	1	0	0	1	11	0	0
	DAMAGE	40	13	4	6	7	5	0	0	0	0	19	0	1
	TOTAL	61	21	9	12	8	6	1	0	0	1	31	0	1
EDINA	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	2	0	0	1	0	0	0	0	0	1	0	0	0
	DAMAGE	6	0	2	1	2	0	0	0	0	0	1	0	0
	TOTAL	8	0	2	2	2	0	0	0	0	1	1	0	0
POP UNDER 1000	FATAL	1	0	0	0	0	0	0	0	0	0	1	0	0
	INJURY	18	8	5	5	1	1	1	0	0	0	11	0	0
	DAMAGE	34	13	2	5	5	5	0	0	0	0	18	0	1
	TOTAL	53	21	7	10	6	6	1	0	0	0	30	0	1
LACLEDE CO	FATAL	11	6	1	5	1	4	0	0	0	0	3	0	0
	INJURY	303	60	18	101	94	44	13	2	1	9	67	1	7
	DAMAGE	776	106	20	213	224	124	0	6	1	0	154	0	14
	TOTAL	1090	172	39	319	319	172	13	8	2	9	224	1	21
LEBANON	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	165	11	8	65	61	14	5	2	1	7	9	1	6
	DAMAGE	397	22	7	126	140	45	0	4	1	0	24	0	7
	TOTAL	562	33	15	191	201	59	5	6	2	7	33	1	13

**TABLE 4.0.1**

**2003 MISSOURI TRAFFIC CRASHES  
COUNTY AND CITY SUMMARY<sup>1</sup>**

CITY	CRASH SEVERITY	TOTAL ACCS	SPEED INV	DRINK INV	DRVR UND 21 INV	DRVR 55 + INV	COMM VEH INV	MOTOR-CYCLE INV	SCHOOL BUS INV	BIKE INV	PEDES-TRIAN INV	FIXED OBJECT INV	HAZ-ARD MATL INV	CONSTR/OTH WK ZONE INV
POP UNDER 1000	FATAL	11	6	1	5	1	4	0	0	0	0	3	0	0
	INJURY	138	49	10	36	33	30	8	0	0	2	58	0	1
	DAMAGE	379	84	13	87	84	79	0	2	0	0	130	0	7
	TOTAL	528	139	24	128	118	113	8	2	0	2	191	0	8
LAFAYETTE CO	FATAL	14	5	2	2	3	3	0	0	0	1	8	0	0
	INJURY	197	71	20	57	42	23	8	2	4	6	85	0	1
	DAMAGE	617	139	25	180	160	103	1	3	0	0	170	2	2
	TOTAL	828	215	47	239	205	129	9	5	4	7	263	2	3
CONCORDIA	FATAL	1	0	0	0	0	0	0	0	0	0	1	0	0
	INJURY	3	0	1	0	0	0	1	0	0	1	0	0	0
	DAMAGE	19	1	0	10	7	3	0	0	0	0	2	0	0
	TOTAL	23	1	1	10	7	3	1	0	0	1	3	0	0
HIGGINSVILLE	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	8	2	1	4	4	0	0	0	1	1	2	0	0
	DAMAGE	93	8	4	22	33	7	0	0	0	0	14	1	0
	TOTAL	101	10	5	26	37	7	0	0	1	1	16	1	0
LEXINGTON	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	20	2	0	8	6	0	1	0	2	1	2	0	0
	DAMAGE	81	4	4	29	23	7	1	1	0	0	11	0	0
	TOTAL	101	6	4	37	29	7	2	1	2	1	13	0	0
ODESSA	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	22	4	3	10	4	0	0	0	1	1	3	0	0
	DAMAGE	82	10	0	39	16	6	0	1	0	0	11	1	0
	TOTAL	104	14	3	49	20	6	0	1	1	1	14	1	0
POP UNDER 1000	FATAL	13	5	2	2	3	3	0	0	0	1	7	0	0
	INJURY	144	63	15	35	28	23	6	2	0	2	78	0	1
	DAMAGE	342	116	17	80	81	80	0	1	0	0	132	0	2
	TOTAL	499	184	34	117	112	106	6	3	0	3	217	0	3
LAWRENCE CO	FATAL	15	8	1	3	7	6	1	0	0	0	4	0	0
	INJURY	248	52	27	69	70	34	7	0	2	3	96	0	1
	DAMAGE	532	92	40	143	136	102	0	1	1	0	143	2	3
	TOTAL	795	152	68	215	213	142	8	1	3	3	243	2	4
AURORA	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	44	5	2	11	20	3	1	0	1	1	3	0	0
	DAMAGE	124	18	4	44	38	10	0	0	0	0	20	0	1
	TOTAL	168	23	6	55	58	13	1	0	1	1	23	0	1
MARIONVILLE	FATAL	1	1	1	0	0	0	0	0	0	0	1	0	0
	INJURY	9	2	1	4	5	0	0	0	0	0	4	0	0
	DAMAGE	21	2	4	4	6	0	0	0	0	0	5	0	0
	TOTAL	31	5	6	8	11	0	0	0	0	0	10	0	0
MONETT / LAW	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	7	1	1	4	0	0	0	0	0	1	3	0	0
	DAMAGE	25	2	0	10	5	3	0	0	0	0	3	0	0
	TOTAL	32	3	1	14	5	3	0	0	0	1	6	0	0
MOUNT VERNON	FATAL	1	1	0	1	0	0	1	0	0	0	0	0	0
	INJURY	15	2	1	4	7	2	0	0	0	0	3	0	0
	DAMAGE	64	8	4	23	24	8	0	0	1	0	9	0	0
	TOTAL	80	11	5	28	31	10	1	0	1	0	12	0	0
PIERCE CITY	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	2	1	0	0	1	0	1	0	0	0	0	0	0
	DAMAGE	10	2	0	2	5	3	0	1	0	0	4	0	0
	TOTAL	12	3	0	2	6	3	1	1	0	0	4	0	0
POP UNDER 1000	FATAL	13	6	0	2	7	6	0	0	0	0	3	0	0
	INJURY	171	41	22	46	37	29	5	0	1	1	83	0	1
	DAMAGE	288	60	28	60	58	78	0	0	0	0	102	2	2
	TOTAL	472	107	50	108	102	113	5	0	1	1	188	2	3
LEWIS CO	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	47	22	7	11	10	7	1	0	0	1	24	0	0
	DAMAGE	133	27	6	37	35	29	2	2	0	0	25	0	2
	TOTAL	180	49	13	48	45	36	3	2	0	1	49	0	2
CANTON	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	2	0	0	0	0	0	0	0	0	1	0	0	0
	DAMAGE	26	4	1	9	9	2	1	0	0	0	2	0	0
	TOTAL	28	4	1	9	9	2	1	0	0	1	2	0	0

**TABLE 4.0.1**

**2003 MISSOURI TRAFFIC CRASHES  
COUNTY AND CITY SUMMARY<sup>1</sup>**

CITY	CRASH SEVERITY	TOTAL ACCS	SPEED INV	DRINK INV	DRVR UND 21 INV	DRVR 55 + INV	COMM VEH INV	MOTOR-CYCLE INV	SCHOOL BUS INV	BIKE INV	PEDES-TRIAN INV	FIXED OBJECT INV	HAZ-ARD MATL INV	CONSTR/OTH WK ZONE INV
LA GRANGE	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	2	1	0	1	0	0	1	0	0	0	0	0	0
	DAMAGE	3	0	0	2	1	1	0	0	0	0	0	0	0
	TOTAL	5	1	0	3	1	1	1	0	0	0	0	0	0
POP UNDER 1000	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	43	21	7	10	10	7	0	0	0	0	24	0	0
	DAMAGE	104	23	5	26	25	26	1	2	0	0	23	0	2
	TOTAL	147	44	12	36	35	33	1	2	0	0	47	0	2
LINCOLN CO	FATAL	15	5	5	1	3	2	0	0	0	2	7	0	0
	INJURY	284	78	29	103	57	38	8	4	3	6	82	1	1
	DAMAGE	654	112	30	211	143	91	2	7	0	0	122	1	1
	TOTAL	953	195	64	315	203	131	10	11	3	8	211	2	2
ELSBERRY	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	2	1	0	1	0	2	0	0	0	0	0	0	0
	DAMAGE	2	0	0	0	0	1	0	0	0	0	0	0	0
	TOTAL	4	1	0	1	0	3	0	0	0	0	0	0	0
MOSCOW MILLS	FATAL	1	0	0	0	1	0	0	0	0	0	0	0	0
	INJURY	35	5	3	7	10	6	2	0	0	0	2	0	0
	DAMAGE	79	10	2	17	13	13	0	0	0	0	3	0	0
	TOTAL	115	15	5	24	24	19	2	0	0	0	5	0	0
TROY	FATAL	1	0	0	0	0	0	0	0	0	1	0	0	0
	INJURY	54	10	6	20	17	9	2	2	1	2	2	0	0
	DAMAGE	198	19	2	88	49	19	0	2	0	0	14	0	1
	TOTAL	253	29	8	108	66	28	2	4	1	3	16	0	1
POP UNDER 1000	FATAL	13	5	5	1	2	2	0	0	0	1	7	0	0
	INJURY	193	62	20	75	30	21	4	2	2	4	78	1	1
	DAMAGE	375	83	26	106	81	58	2	5	0	0	105	1	0
	TOTAL	581	150	51	182	113	81	6	7	2	5	190	2	1
LINN CO	FATAL	5	0	3	1	3	0	0	0	0	0	2	0	0
	INJURY	73	16	17	20	20	6	2	0	0	1	32	0	0
	DAMAGE	195	41	11	43	43	25	0	0	0	0	67	0	1
	TOTAL	273	57	31	64	66	31	2	0	0	1	101	0	1
BROOKFIELD	FATAL	1	0	0	0	1	0	0	0	0	0	0	0	0
	INJURY	23	4	2	8	9	3	1	0	0	0	4	0	0
	DAMAGE	71	14	5	13	24	7	0	0	0	0	14	0	1
	TOTAL	95	18	7	21	34	10	1	0	0	0	18	0	1
MARCELINE	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	2	1	1	1	1	0	0	0	0	0	1	0	0
	DAMAGE	18	1	0	7	5	1	0	0	0	0	1	0	0
	TOTAL	20	2	1	8	6	1	0	0	0	0	2	0	0
POP UNDER 1000	FATAL	4	0	3	1	2	0	0	0	0	0	2	0	0
	INJURY	48	11	14	11	10	3	1	0	0	1	27	0	0
	DAMAGE	106	26	6	23	14	17	0	0	0	0	52	0	0
	TOTAL	158	37	23	35	26	20	1	0	0	1	81	0	0
LIVINGSTON CO	FATAL	4	1	0	1	0	2	0	0	0	0	2	0	0
	INJURY	76	29	7	26	22	5	2	0	0	0	30	0	7
	DAMAGE	268	48	11	77	72	31	1	1	0	0	55	0	4
	TOTAL	348	78	18	104	94	38	3	1	0	0	87	0	11
CHILLICOTHE	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	31	6	3	11	10	1	0	0	0	0	7	0	2
	DAMAGE	204	21	9	57	57	20	1	1	0	0	27	0	0
	TOTAL	235	27	12	68	67	21	1	1	0	0	34	0	2
POP UNDER 1000	FATAL	4	1	0	1	0	2	0	0	0	0	2	0	0
	INJURY	45	23	4	15	12	4	2	0	0	0	23	0	5
	DAMAGE	64	27	2	20	15	11	0	0	0	0	28	0	4
	TOTAL	113	51	6	36	27	17	2	0	0	0	53	0	9
MC DONALD CO	FATAL	13	5	4	3	3	4	0	0	0	1	5	0	0
	INJURY	172	67	48	36	25	23	10	0	1	1	81	1	1
	DAMAGE	281	90	40	59	52	48	1	2	0	0	115	2	4
	TOTAL	466	162	92	98	80	75	11	2	1	2	201	3	5
ANDERSON	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	7	0	2	3	1	0	1	0	0	0	1	0	0
	DAMAGE	23	3	2	6	7	3	0	1	0	0	4	0	1
	TOTAL	30	3	4	9	8	3	1	1	0	0	5	0	1

**TABLE 4.0.1**

**2003 MISSOURI TRAFFIC CRASHES  
COUNTY AND CITY SUMMARY<sup>1</sup>**

CITY	CRASH SEVERITY	TOTAL ACCS	SPEED INV	DRINK INV	DRVR UND 21 INV	DRVR 55 + INV	COMM VEH INV	MOTOR- CYCLE INV	SCHOOL BUS INV	BIKE INV	PEDES- TRIAN INV	FIXED OBJECT INV	HAZ- ARD MATL INV	CONSTR/ OTH WK ZONE INV
GOODMAN	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	4	1	1	2	0	1	0	0	0	0	1	0	0
	DAMAGE	1	0	1	0	0	1	0	0	0	0	0	0	0
	TOTAL	5	1	2	2	0	2	0	0	0	0	1	0	0
NOEL	FATAL	2	2	0	1	1	0	0	0	0	0	2	0	0
	INJURY	9	5	1	1	2	2	0	0	0	0	4	0	0
	DAMAGE	20	9	6	3	1	2	0	0	0	0	11	0	0
	TOTAL	31	16	7	5	4	4	0	0	0	0	17	0	0
POP UNDER 1000	FATAL	11	3	4	2	2	4	0	0	0	1	3	0	0
	INJURY	152	61	44	30	22	20	9	0	1	1	75	1	1
	DAMAGE	237	78	31	50	44	42	1	1	0	0	100	2	3
	TOTAL	400	142	79	82	68	66	10	1	1	2	178	3	4
MACON CO	FATAL	6	2	2	2	1	2	0	0	0	0	3	0	0
	INJURY	111	25	9	38	31	17	5	0	1	0	36	0	1
	DAMAGE	225	40	11	45	80	43	2	1	0	0	45	2	8
	TOTAL	342	67	22	85	112	62	7	1	1	0	84	2	9
LA PLATA	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	1	1	0	1	0	0	0	0	0	0	0	0	0
	DAMAGE	9	1	2	2	2	0	0	0	0	0	3	0	0
	TOTAL	10	2	2	3	2	0	0	0	0	0	3	0	0
MACON	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	35	6	1	11	12	1	4	0	0	0	3	0	0
	DAMAGE	100	10	4	24	48	11	0	1	0	0	12	1	1
	TOTAL	135	16	5	35	60	12	4	1	0	0	15	1	1
POP UNDER 1000	FATAL	6	2	2	2	1	2	0	0	0	0	3	0	0
	INJURY	75	18	8	26	19	16	1	0	1	0	33	0	1
	DAMAGE	116	29	5	19	30	32	2	0	0	0	30	1	7
	TOTAL	197	49	15	47	50	50	3	0	1	0	66	1	8
MADISON CO	FATAL	5	0	0	1	1	1	0	0	0	0	0	0	0
	INJURY	100	31	14	38	28	6	2	0	1	2	45	0	0
	DAMAGE	152	25	4	42	38	22	0	1	1	0	57	0	0
	TOTAL	257	56	18	81	67	29	2	1	2	2	102	0	0
FREDERICKTOWN	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	25	3	2	12	10	1	0	0	0	2	3	0	0
	DAMAGE	72	2	3	21	27	12	0	1	1	0	17	0	0
	TOTAL	97	5	5	33	37	13	0	1	1	2	20	0	0
POP UNDER 1000	FATAL	5	0	0	1	1	1	0	0	0	0	0	0	0
	INJURY	75	28	12	26	18	5	2	0	1	0	42	0	0
	DAMAGE	80	23	1	21	11	10	0	0	0	0	40	0	0
	TOTAL	160	51	13	48	30	16	2	0	1	0	82	0	0
MARIES CO	FATAL	9	4	2	1	4	2	0	0	0	0	3	0	0
	INJURY	62	26	7	20	12	6	4	0	0	0	28	0	0
	DAMAGE	120	35	8	23	29	23	0	0	0	0	42	0	1
	TOTAL	191	65	17	44	45	31	4	0	0	0	73	0	1
BELLE	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	1	0	0	0	0	0	0	0	0	0	0	0	0
	DAMAGE	5	1	0	2	2	1	0	0	0	0	0	0	0
	TOTAL	6	1	0	2	2	1	0	0	0	0	0	0	0
POP UNDER 1000	FATAL	9	4	2	1	4	2	0	0	0	0	3	0	0
	INJURY	61	26	7	20	12	6	4	0	0	0	28	0	0
	DAMAGE	115	34	8	21	27	22	0	0	0	0	42	0	1
	TOTAL	185	64	17	42	43	30	4	0	0	0	73	0	1
MARION CO	FATAL	3	2	1	1	1	1	0	0	0	0	2	0	0
	INJURY	243	52	24	79	70	31	6	0	2	9	62	3	9
	DAMAGE	864	121	29	220	222	103	4	2	1	1	129	2	14
	TOTAL	1110	175	54	300	293	135	10	2	3	10	193	5	23
HANNIBAL / MAR	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	151	25	11	54	42	12	5	0	2	8	28	0	1
	DAMAGE	624	78	23	160	165	64	4	2	1	1	72	1	3
	TOTAL	775	103	34	214	207	76	9	2	3	9	100	1	4
MONROE CITY / MAR	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	1	0	0	1	0	0	0	0	0	0	0	0	0
	DAMAGE	4	0	1	1	2	1	0	0	0	0	0	0	0
	TOTAL	5	0	1	2	2	1	0	0	0	0	0	0	0

**TABLE 4.0.1**

**2003 MISSOURI TRAFFIC CRASHES  
COUNTY AND CITY SUMMARY<sup>1</sup>**

CITY	CRASH SEVERITY	TOTAL ACCS	SPEED INV	DRINK INV	DRVR UND 21 INV	DRVR 55 + INV	COMM VEH INV	MOTOR-CYCLE INV	SCHOOL BUS INV	BIKE INV	PEDES-TRIAN INV	FIXED OBJECT INV	HAZ-ARD MATL INV	CONSTR/OTH WK ZONE INV
PALMYRA	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	5	0	1	2	1	1	0	0	0	1	1	1	0
	DAMAGE	59	2	0	17	14	8	0	0	0	0	14	0	0
	TOTAL	64	2	1	19	15	9	0	0	0	1	15	1	0
POP UNDER 1000	FATAL	3	2	1	1	1	1	0	0	0	0	2	0	0
	INJURY	86	27	12	22	27	18	1	0	0	0	33	2	8
	DAMAGE	177	41	5	42	41	30	0	0	0	0	43	1	11
	TOTAL	266	70	18	65	69	49	1	0	0	0	78	3	19
MERCER CO	FATAL	2	2	0	1	1	0	0	0	0	0	1	0	0
	INJURY	28	7	2	8	6	3	0	0	0	0	8	0	1
	DAMAGE	53	19	0	14	17	12	0	0	0	0	14	1	1
	TOTAL	83	28	2	23	24	15	0	0	0	0	23	1	2
PRINCETON	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	3	0	0	1	1	0	0	0	0	0	0	0	0
	DAMAGE	11	1	0	3	7	2	0	0	0	0	1	1	0
	TOTAL	14	1	0	4	8	2	0	0	0	0	1	1	0
POP UNDER 1000	FATAL	2	2	0	1	1	0	0	0	0	0	1	0	0
	INJURY	25	7	2	7	5	3	0	0	0	0	8	0	1
	DAMAGE	42	18	0	11	10	10	0	0	0	0	13	0	1
	TOTAL	69	27	2	19	16	13	0	0	0	0	22	0	2
MILLER CO	FATAL	9	6	3	1	1	0	0	0	0	1	3	0	0
	INJURY	168	70	16	49	44	14	5	0	1	3	62	0	4
	DAMAGE	424	92	19	119	109	39	4	2	0	0	104	0	15
	TOTAL	601	168	38	169	154	53	9	2	1	4	169	0	19
ELDON	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	22	4	1	5	11	2	1	0	1	1	4	0	0
	DAMAGE	116	13	2	35	39	10	0	1	0	0	13	0	3
	TOTAL	138	17	3	40	50	12	1	1	1	1	17	0	3
LAKE OZARK / MIL	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	25	6	1	7	6	4	2	0	0	0	3	0	3
	DAMAGE	85	8	0	26	25	6	2	1	0	0	13	0	11
	TOTAL	110	14	1	33	31	10	4	1	0	0	16	0	14
OSAGE BEACH / MIL	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	2	1	0	0	0	0	0	0	0	0	1	0	0
	DAMAGE	15	1	1	6	4	1	0	0	0	0	5	0	1
	TOTAL	17	2	1	6	4	1	0	0	0	0	6	0	1
POP UNDER 1000	FATAL	9	6	3	1	1	0	0	0	0	1	3	0	0
	INJURY	119	59	14	37	27	8	2	0	0	2	54	0	1
	DAMAGE	208	70	16	52	41	22	2	0	0	0	73	0	0
	TOTAL	336	135	33	90	69	30	4	0	0	3	130	0	1
MISSISSIPPI CO	FATAL	2	1	1	0	0	1	0	0	0	0	0	0	0
	INJURY	70	11	10	25	15	9	2	0	1	2	18	0	0
	DAMAGE	232	41	15	48	59	37	1	1	1	0	51	0	5
	TOTAL	304	53	26	73	74	47	3	1	2	2	69	0	5
CHARLESTON	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	16	2	1	6	8	0	0	0	1	0	0	0	0
	DAMAGE	77	8	4	12	23	13	0	1	1	0	9	0	0
	TOTAL	93	10	5	18	31	13	0	1	2	0	9	0	0
EAST PRAIRIE	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	5	0	0	2	2	0	1	0	0	0	0	0	0
	DAMAGE	58	8	5	20	15	3	0	0	0	0	11	0	1
	TOTAL	63	8	5	22	17	3	1	0	0	0	11	0	1
POP UNDER 1000	FATAL	2	1	1	0	0	1	0	0	0	0	0	0	0
	INJURY	49	9	9	17	5	9	1	0	0	2	18	0	0
	DAMAGE	97	25	6	16	21	21	1	0	0	0	31	0	4
	TOTAL	148	35	16	33	26	31	2	0	0	2	49	0	4
MONITEAU CO	FATAL	3	1	1	1	1	2	0	0	0	0	0	0	0
	INJURY	99	44	11	43	14	6	5	0	0	1	58	0	1
	DAMAGE	242	43	11	91	68	18	0	1	1	0	56	0	1
	TOTAL	344	88	23	135	83	26	5	1	1	1	114	0	2
CALIFORNIA	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	18	3	1	10	5	0	0	0	0	1	2	0	1
	DAMAGE	119	7	4	53	39	8	0	0	1	0	9	0	1
	TOTAL	137	10	5	63	44	8	0	0	1	1	11	0	2

**TABLE 4.0.1**

**2003 MISSOURI TRAFFIC CRASHES  
COUNTY AND CITY SUMMARY<sup>1</sup>**

CITY	CRASH SEVERITY	TOTAL ACCS	SPEED INV	DRINK INV	DRVR UND 21 INV	DRVR 55 + INV	COMM VEH INV	MOTOR-CYCLE INV	SCHOOL BUS INV	BIKE INV	PEDES-TRIAN INV	FIXED OBJECT INV	HAZ-ARD MATL INV	CONSTR/ OTH WK ZONE INV
TIPTON	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	3	1	1	0	1	0	0	0	0	0	2	0	0
	DAMAGE	29	3	2	15	10	3	0	0	0	0	3	0	0
	TOTAL	32	4	3	15	11	3	0	0	0	0	5	0	0
POP UNDER 1000	FATAL	3	1	1	1	1	2	0	0	0	0	0	0	0
	INJURY	78	40	9	33	8	6	5	0	0	0	54	0	0
	DAMAGE	94	33	5	23	19	7	0	1	0	0	44	0	0
	TOTAL	175	74	15	57	28	15	5	1	0	0	98	0	0
MONROECO	FATAL	5	3	1	1	3	1	0	0	0	0	1	0	0
	INJURY	50	19	4	20	8	5	0	0	1	0	25	0	0
	DAMAGE	151	22	4	48	30	17	0	1	0	0	30	0	0
	TOTAL	206	44	9	69	41	23	0	1	1	0	56	0	0
MONROE CITY / MON	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	9	0	0	5	3	1	0	0	0	0	0	0	0
	DAMAGE	35	3	2	18	8	5	0	0	0	0	4	0	0
	TOTAL	44	3	2	23	11	6	0	0	0	0	4	0	0
PARIS	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	2	0	0	1	1	0	0	0	1	0	0	0	0
	DAMAGE	23	1	0	12	6	2	0	0	0	0	2	0	0
	TOTAL	25	1	0	13	7	2	0	0	1	0	2	0	0
POP UNDER 1000	FATAL	5	3	1	1	3	1	0	0	0	0	1	0	0
	INJURY	39	19	4	14	4	4	0	0	0	0	25	0	0
	DAMAGE	93	18	2	18	16	10	0	1	0	0	24	0	0
	TOTAL	137	40	7	33	23	15	0	1	0	0	50	0	0
MONTGOMERY CO	FATAL	7	4	1	1	0	3	0	0	0	0	4	0	0
	INJURY	117	64	10	33	28	20	5	0	0	1	59	0	5
	DAMAGE	298	110	10	56	65	71	0	0	0	0	121	0	14
	TOTAL	422	178	21	90	93	94	5	0	0	1	184	0	19
MONTGOMERY CITY	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	8	2	0	2	5	1	0	0	0	1	1	0	0
	DAMAGE	38	4	4	12	17	2	0	0	0	0	3	0	0
	TOTAL	46	6	4	14	22	3	0	0	0	1	4	0	0
WELLSVILLE	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	1	1	0	0	0	0	0	0	0	0	1	0	0
	DAMAGE	0	0	0	0	0	0	0	0	0	0	0	0	0
	TOTAL	1	1	0	0	0	0	0	0	0	0	1	0	0
POP UNDER 1000	FATAL	7	4	1	1	0	3	0	0	0	0	4	0	0
	INJURY	108	61	10	31	23	19	5	0	0	0	57	0	5
	DAMAGE	260	106	6	44	48	69	0	0	0	0	118	0	14
	TOTAL	375	171	17	76	71	91	5	0	0	0	179	0	19
MORGAN CO	FATAL	4	2	1	2	0	0	0	0	0	0	2	0	0
	INJURY	138	66	24	40	36	4	7	0	2	2	77	0	0
	DAMAGE	315	99	25	71	88	30	0	1	0	0	99	0	2
	TOTAL	457	167	50	113	124	34	7	1	2	2	178	0	2
VERSAILLES	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	11	1	1	7	4	0	1	0	1	1	2	0	0
	DAMAGE	58	6	4	15	19	4	0	1	0	0	11	0	0
	TOTAL	69	7	5	22	23	4	1	1	1	1	13	0	0
POP UNDER 1000	FATAL	4	2	1	2	0	0	0	0	0	0	2	0	0
	INJURY	127	65	23	33	32	4	6	0	1	1	75	0	0
	DAMAGE	257	93	21	56	69	26	0	0	0	0	88	0	2
	TOTAL	388	160	45	91	101	30	6	0	1	1	165	0	2
NEW MADRID CO	FATAL	15	6	1	3	4	5	0	0	0	3	5	0	0
	INJURY	145	37	23	31	38	18	2	1	3	8	48	0	0
	DAMAGE	372	48	7	75	116	81	0	2	1	0	82	1	6
	TOTAL	532	91	31	109	158	104	2	3	4	11	135	1	6
GIDEON	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	0	0	0	0	0	0	0	0	0	0	0	0	0
	DAMAGE	4	0	1	2	0	0	0	0	0	0	0	0	0
	TOTAL	4	0	1	2	0	0	0	0	0	0	0	0	0
LILBOURN	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	3	2	1	1	0	0	0	0	0	1	1	0	0
	DAMAGE	3	0	0	0	1	0	0	0	0	0	1	0	0
	TOTAL	6	2	1	1	1	0	0	0	0	1	2	0	0

**TABLE 4.0.1**

**2003 MISSOURI TRAFFIC CRASHES  
COUNTY AND CITY SUMMARY<sup>1</sup>**

CITY	CRASH SEVERITY	TOTAL ACCS	SPEED INV	DRINK INV	DRVR UND 21 INV	DRVR 55 + INV	COMM VEH INV	MOTOR- CYCLE INV	SCHOOL BUS INV	BIKE INV	PEDES- TRIAN INV	FIXED OBJECT INV	HAZ- ARD MATL INV	CONSTR/ OTH WK ZONE INV
MOREHOUSE	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	0	0	0	0	0	0	0	0	0	0	0	0	0
	DAMAGE	7	1	0	3	1	0	0	0	1	0	1	0	0
	TOTAL	7	1	0	3	1	0	0	0	1	0	1	0	0
NEW MADRID	FATAL	2	0	0	1	0	1	0	0	0	1	0	0	0
	INJURY	9	1	1	3	3	0	0	0	2	2	1	0	0
	DAMAGE	32	0	1	12	9	4	0	2	0	0	4	0	0
	TOTAL	43	1	2	16	12	5	0	2	2	3	5	0	0
PORTAGEVILLE	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	8	0	1	2	3	0	1	0	0	1	1	0	0
	DAMAGE	31	1	2	15	10	3	0	0	0	0	4	0	3
	TOTAL	39	1	3	17	13	3	1	0	0	1	5	0	3
SIKESTON	FATAL	2	0	0	0	1	1	0	0	0	1	1	0	0
	INJURY	13	2	1	3	7	1	0	0	0	2	1	0	0
	DAMAGE	89	5	1	10	39	13	0	0	0	0	9	0	0
	TOTAL	104	7	2	13	47	15	0	0	0	3	11	0	0
POP UNDER 1000	FATAL	11	6	1	2	3	3	0	0	0	1	4	0	0
	INJURY	112	32	19	22	25	17	1	1	1	2	44	0	0
	DAMAGE	206	41	2	33	56	61	0	0	0	0	63	1	3
	TOTAL	329	79	22	57	84	81	1	1	1	3	111	1	3
NEWTON CO	FATAL	17	4	4	1	6	2	3	0	0	0	8	0	0
	INJURY	409	113	52	128	110	46	18	1	6	2	137	1	5
	DAMAGE	836	124	31	264	244	119	2	4	0	0	175	2	7
	TOTAL	1262	241	87	393	360	167	23	5	6	2	320	3	12
GRANBY	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	2	2	1	0	0	0	0	0	0	0	0	0	0
	DAMAGE	8	2	0	4	1	0	0	0	0	0	0	0	0
	TOTAL	10	4	1	4	1	0	0	0	0	0	0	0	0
JOPLIN / NEW	FATAL	1	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	81	12	3	16	28	15	4	0	1	1	13	1	4
	DAMAGE	201	14	3	50	69	26	0	0	0	0	13	0	6
	TOTAL	283	26	6	66	97	41	4	0	1	1	26	1	10
NEOSHO	FATAL	1	0	0	0	1	0	1	0	0	0	0	0	0
	INJURY	70	7	6	28	21	6	4	0	3	1	11	0	0
	DAMAGE	255	26	9	88	86	29	0	0	0	0	39	1	1
	TOTAL	326	33	15	116	108	35	5	0	3	1	50	1	1
SENECA	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	6	0	0	4	2	1	0	0	1	0	0	0	1
	DAMAGE	37	0	1	18	11	3	0	0	0	0	9	0	0
	TOTAL	43	0	1	22	13	4	0	0	1	0	9	0	1
POP UNDER 1000	FATAL	15	4	4	1	5	2	2	0	0	0	8	0	0
	INJURY	250	92	42	80	59	24	10	1	1	0	113	0	0
	DAMAGE	335	82	18	104	77	61	2	4	0	0	114	1	0
	TOTAL	600	178	64	185	141	87	14	5	1	0	235	1	0
NODAWAY CO	FATAL	5	2	2	0	1	2	0	0	0	0	2	1	0
	INJURY	137	48	12	44	30	11	3	0	3	3	46	0	1
	DAMAGE	391	61	13	136	97	26	0	5	0	1	63	0	5
	TOTAL	533	111	27	180	128	39	3	5	3	4	111	1	6
MARYVILLE	FATAL	2	2	2	0	0	0	0	0	0	0	1	0	0
	INJURY	32	3	1	15	8	3	1	0	3	1	4	0	1
	DAMAGE	277	24	6	93	76	8	0	2	0	1	22	0	5
	TOTAL	311	29	9	108	84	11	1	2	3	2	27	0	6
POP UNDER 1000	FATAL	3	0	0	0	1	2	0	0	0	0	1	1	0
	INJURY	105	45	11	29	22	8	2	0	0	2	42	0	0
	DAMAGE	114	37	7	43	21	18	0	3	0	0	41	0	0
	TOTAL	222	82	18	72	44	28	2	3	0	2	84	1	0
OREGON CO	FATAL	3	2	1	1	0	0	0	0	0	0	1	0	0
	INJURY	69	30	8	25	13	5	5	0	0	0	34	0	0
	DAMAGE	96	24	4	22	34	11	1	0	0	0	23	0	1
	TOTAL	168	56	13	48	47	16	6	0	0	0	58	0	1
THAYER	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	12	1	2	7	5	1	1	0	0	0	2	0	0
	DAMAGE	38	6	0	10	14	9	0	0	0	0	2	0	1
	TOTAL	50	7	2	17	19	10	1	0	0	0	4	0	1

**TABLE 4.0.1**

**2003 MISSOURI TRAFFIC CRASHES  
COUNTY AND CITY SUMMARY<sup>1</sup>**

CITY	CRASH SEVERITY	TOTAL ACCS	SPEED INV	DRINK INV	DRVR UND 21 INV	DRVR 55 + INV	COMM VEH INV	MOTOR-CYCLE INV	SCHOOL BUS INV	BIKE INV	PEDES-TRIAN INV	FIXED OBJECT INV	HAZ-ARD MATL INV	CONSTR/ OTH WK ZONE INV
POP UNDER 1000	FATAL	3	2	1	1	0	0	0	0	0	0	1	0	0
	INJURY	57	29	6	18	8	4	4	0	0	0	32	0	0
	DAMAGE	58	18	4	12	20	2	1	0	0	0	21	0	0
	TOTAL	118	49	11	31	28	6	5	0	0	0	54	0	0
OSAGE CO	FATAL	6	1	1	2	2	0	1	0	1	0	0	0	0
	INJURY	91	29	19	35	15	7	2	0	0	1	42	0	1
	DAMAGE	164	39	8	55	28	19	0	4	0	0	45	0	1
	TOTAL	261	69	28	92	45	26	3	4	1	1	87	0	2
LINN	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	7	0	0	4	3	0	0	0	0	0	3	0	0
	DAMAGE	31	6	2	10	6	3	0	1	0	0	4	0	0
	TOTAL	38	6	2	14	9	3	0	1	0	0	7	0	0
POP UNDER 1000	FATAL	6	1	1	2	2	0	1	0	1	0	0	0	0
	INJURY	84	29	19	31	12	7	2	0	0	1	39	0	1
	DAMAGE	133	33	6	45	22	16	0	3	0	0	41	0	1
	TOTAL	223	63	26	78	36	23	3	3	1	1	80	0	2
OZARK CO	FATAL	5	2	2	2	1	1	0	0	0	0	3	0	0
	INJURY	49	17	5	12	17	5	2	0	0	0	27	0	0
	DAMAGE	98	22	17	22	20	10	0	1	0	0	45	0	0
	TOTAL	152	41	24	36	38	16	2	1	0	0	75	0	0
POP UNDER 1000	FATAL	5	2	2	2	1	1	0	0	0	0	3	0	0
	INJURY	49	17	5	12	17	5	2	0	0	0	27	0	0
	DAMAGE	98	22	17	22	20	10	0	1	0	0	45	0	0
	TOTAL	152	41	24	36	38	16	2	1	0	0	75	0	0
PEMISCOT CO	FATAL	12	4	5	1	0	2	2	0	0	1	6	0	0
	INJURY	184	48	27	45	48	28	3	0	3	7	66	0	5
	DAMAGE	338	71	26	87	77	56	1	0	0	0	87	1	10
	TOTAL	534	123	58	133	125	86	6	0	3	8	159	1	15
CARUTHERSVILLE	FATAL	1	0	0	1	0	0	1	0	0	0	0	0	0
	INJURY	16	2	2	5	5	0	0	0	3	1	1	0	0
	DAMAGE	38	4	2	14	8	0	1	0	0	0	3	0	0
	TOTAL	55	6	4	20	13	0	2	0	3	1	4	0	0
HAYTI	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	37	6	5	15	6	5	0	0	0	2	8	0	0
	DAMAGE	93	12	9	27	26	11	0	0	0	0	8	0	0
	TOTAL	130	18	14	42	32	16	0	0	0	2	16	0	0
STEELE	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	2	0	0	0	0	0	0	0	0	1	0	0	0
	DAMAGE	34	0	4	16	6	2	0	0	0	0	8	0	0
	TOTAL	36	0	4	16	6	2	0	0	0	1	8	0	0
POP UNDER 1000	FATAL	11	4	5	0	0	2	1	0	0	1	6	0	0
	INJURY	129	40	20	25	37	23	3	0	0	3	57	0	5
	DAMAGE	173	55	11	30	37	43	0	0	0	0	68	1	10
	TOTAL	313	99	36	55	74	68	4	0	0	4	131	1	15
PERRY CO	FATAL	4	1	0	0	1	2	0	0	0	0	1	0	0
	INJURY	160	58	17	47	32	19	6	1	1	2	66	1	2
	DAMAGE	457	79	11	134	113	60	2	4	0	0	91	0	7
	TOTAL	621	138	28	181	146	81	8	5	1	2	158	1	9
PERRYVILLE	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	65	20	7	21	20	7	1	0	1	2	8	1	1
	DAMAGE	254	23	9	84	68	29	1	3	0	0	21	0	6
	TOTAL	319	43	16	105	88	36	2	3	1	2	29	1	7
POP UNDER 1000	FATAL	4	1	0	0	1	2	0	0	0	0	1	0	0
	INJURY	95	38	10	26	12	12	5	1	0	0	58	0	1
	DAMAGE	203	56	2	50	45	31	1	1	0	0	70	0	1
	TOTAL	302	95	12	76	58	45	6	2	0	0	129	0	2
PETTIS CO	FATAL	9	3	1	2	2	3	2	0	0	1	4	0	0
	INJURY	376	95	26	132	90	29	16	0	9	12	87	0	1
	DAMAGE	1044	159	41	335	269	100	0	3	0	0	155	0	5
	TOTAL	1429	257	68	469	361	132	18	3	9	13	246	0	6
LA MONTE	FATAL	1	0	0	0	1	1	0	0	0	0	0	0	0
	INJURY	0	0	0	0	0	0	0	0	0	0	0	0	0
	DAMAGE	5	0	0	1	0	1	0	0	0	0	0	0	0
	TOTAL	6	0	0	1	1	2	0	0	0	0	0	0	0

**TABLE 4.0.1**



**2003 MISSOURI TRAFFIC CRASHES  
COUNTY AND CITY SUMMARY<sup>1</sup>**

CITY	CRASH SEVERITY	TOTAL ACCS	SPEED INV	DRINK INV	DRVR UND 21 INV	DRVR 55 + INV	COMM VEH INV	MOTOR- CYCLE INV	SCHOOL BUS INV	BIKE INV	PEDES- TRIAN INV	FIXED OBJECT INV	HAZ- ARD MATL INV	CONSTR/ OTH WK ZONE INV
SEDALIA	FATAL	2	1	1	0	1	0	0	0	0	0	1	0	0
	INJURY	242	33	11	92	70	17	9	0	9	11	21	0	1
	DAMAGE	751	74	27	268	221	52	0	2	0	0	55	0	2
	TOTAL	995	108	39	360	292	69	9	2	9	11	77	0	3
POP UNDER 1000	FATAL	6	2	0	2	0	2	2	0	0	1	3	0	0
	INJURY	134	62	15	40	20	12	7	0	0	1	66	0	0
	DAMAGE	288	85	14	66	48	47	0	1	0	0	100	0	3
	TOTAL	428	149	29	108	68	61	9	1	0	2	169	0	3
PHELPS CO	FATAL	16	2	4	2	9	2	0	1	0	2	5	0	1
	INJURY	416	108	50	126	109	46	10	1	4	8	148	0	7
	DAMAGE	1164	190	28	343	280	218	7	5	0	0	222	1	20
	TOTAL	1596	300	82	471	398	266	17	7	4	10	375	1	28
ROLLA	FATAL	2	0	0	0	0	1	0	0	0	2	0	0	0
	INJURY	194	32	15	68	62	18	4	0	4	7	26	0	0
	DAMAGE	659	77	16	225	177	101	4	3	0	0	75	0	7
	TOTAL	855	109	31	293	239	120	8	3	4	9	101	0	7
ST. JAMES	FATAL	1	0	0	0	1	0	0	0	0	0	1	0	0
	INJURY	24	5	1	11	6	3	0	0	0	0	9	0	0
	DAMAGE	92	4	2	36	23	14	1	0	0	0	11	0	0
	TOTAL	117	9	3	47	30	17	1	0	0	0	21	0	0
POP UNDER 1000	FATAL	13	2	4	2	8	1	0	1	0	0	4	0	1
	INJURY	198	71	34	47	41	25	6	1	0	1	113	0	7
	DAMAGE	413	109	10	82	80	103	2	2	0	0	136	1	13
	TOTAL	624	182	48	131	129	129	8	4	0	1	253	1	21
PIKE CO	FATAL	8	3	1	2	2	1	2	0	0	0	4	0	0
	INJURY	89	22	12	22	22	5	4	0	4	2	41	1	0
	DAMAGE	252	36	11	75	81	29	0	1	0	0	48	0	0
	TOTAL	349	61	24	99	105	35	6	1	4	2	93	1	0
BOWLING GREEN	FATAL	1	0	0	1	0	0	0	0	0	0	0	0	0
	INJURY	11	1	3	4	3	0	0	0	2	0	3	0	0
	DAMAGE	63	4	1	22	22	6	0	0	0	0	4	0	0
	TOTAL	75	5	4	27	25	6	0	0	2	0	7	0	0
LOUISIANA	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	15	1	1	2	5	0	1	0	2	0	3	0	0
	DAMAGE	81	15	4	26	35	7	0	0	0	0	13	0	0
	TOTAL	96	16	5	28	40	7	1	0	2	0	16	0	0
POP UNDER 1000	FATAL	7	3	1	1	2	1	2	0	0	0	4	0	0
	INJURY	63	20	8	16	14	5	3	0	0	2	35	1	0
	DAMAGE	108	17	6	27	24	16	0	1	0	0	31	0	0
	TOTAL	178	40	15	44	40	22	5	1	0	2	70	1	0
PLATTE CO	FATAL	11	6	1	4	2	2	0	0	0	1	6	0	0
	INJURY	488	145	47	109	84	45	24	3	3	13	149	0	14
	DAMAGE	2139	329	60	352	380	211	9	18	1	1	373	2	70
	TOTAL	2638	480	108	465	466	258	33	21	4	15	528	2	84
KANSAS CITY / PLA	FATAL	4	2	0	1	0	1	0	0	0	1	1	0	0
	INJURY	244	56	19	47	32	24	13	2	2	10	60	0	8
	DAMAGE	1378	161	27	184	226	117	6	12	1	1	177	1	52
	TOTAL	1626	219	46	232	258	142	19	14	3	12	238	1	60
PARKVILLE	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	27	7	2	4	7	1	2	1	0	0	1	0	0
	DAMAGE	110	9	3	26	21	12	1	1	0	0	18	0	2
	TOTAL	137	16	5	30	28	13	3	2	0	0	19	0	2
PLATTE CITY	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	16	3	5	6	5	1	0	0	0	0	5	0	0
	DAMAGE	97	8	3	19	28	16	0	1	0	0	14	0	0
	TOTAL	113	11	8	25	33	17	0	1	0	0	19	0	0
RIVERSIDE	FATAL	1	1	0	0	1	0	0	0	0	0	1	0	0
	INJURY	42	15	5	6	18	7	0	0	0	0	15	0	5
	DAMAGE	115	22	5	18	30	16	1	0	0	0	29	1	11
	TOTAL	158	38	10	24	49	23	1	0	0	0	45	1	16
WEATHERBY LAKE	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	1	0	0	0	0	0	0	0	0	0	1	0	0
	DAMAGE	5	2	0	4	2	0	0	0	0	0	3	0	0
	TOTAL	6	2	0	4	2	0	0	0	0	0	4	0	0

**TABLE 4.0.1**

**2003 MISSOURI TRAFFIC CRASHES  
COUNTY AND CITY SUMMARY<sup>1</sup>**

CITY	CRASH SEVERITY	TOTAL ACCS	SPEED INV	DRINK INV	DRVR UND 21 INV	DRVR 55 + INV	COMM VEH INV	MOTOR-CYCLE INV	SCHOOL BUS INV	BIKE INV	PEDES-TRIAN INV	FIXED OBJECT INV	HAZ-ARD MATL INV	CONSTR/ OTH WK ZONE INV
WESTON	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	4	1	0	3	0	0	1	0	0	0	2	0	0
	DAMAGE	30	1	1	7	10	7	1	0	0	0	8	0	1
	TOTAL	34	2	1	10	10	7	2	0	0	0	10	0	1
POP UNDER 1000	FATAL	6	3	1	3	1	1	0	0	0	0	4	0	0
	INJURY	154	63	16	43	22	12	8	0	1	3	65	0	1
	DAMAGE	404	126	21	94	63	43	0	4	0	0	124	0	4
	TOTAL	564	192	38	140	86	56	8	4	1	3	193	0	5
POLK CO	FATAL	6	2	0	3	2	4	0	0	0	0	0	0	1
	INJURY	199	55	18	65	52	12	3	1	1	2	87	0	9
	DAMAGE	474	98	15	172	141	44	1	3	0	0	130	0	20
	TOTAL	679	155	33	240	195	60	4	4	1	2	217	0	30
BOLIVAR	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	32	1	0	15	13	1	1	0	1	0	1	0	2
	DAMAGE	183	14	0	78	64	11	1	1	0	0	16	0	13
	TOTAL	215	15	0	93	77	12	2	1	1	0	17	0	15
POP UNDER 1000	FATAL	6	2	0	3	2	4	0	0	0	0	0	0	1
	INJURY	167	54	18	50	39	11	2	1	0	2	86	0	7
	DAMAGE	291	84	15	94	77	33	0	2	0	0	114	0	7
	TOTAL	464	140	33	147	118	48	2	3	0	2	200	0	15
PULASKICO	FATAL	12	6	3	3	5	2	0	0	0	0	4	1	0
	INJURY	233	78	26	83	44	26	11	1	1	5	88	0	6
	DAMAGE	770	139	35	217	176	105	2	8	0	0	193	1	15
	TOTAL	1015	223	64	303	225	133	13	9	1	5	285	2	21
CROCKER	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	2	0	0	1	0	0	0	0	0	0	0	0	0
	DAMAGE	29	0	1	7	8	3	0	0	0	0	8	0	0
	TOTAL	31	0	1	8	8	3	0	0	0	0	8	0	0
DIXON	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	3	0	0	2	1	0	0	0	0	0	0	0	0
	DAMAGE	43	1	1	14	15	7	0	2	0	0	4	0	0
	TOTAL	46	1	1	16	16	7	0	2	0	0	4	0	0
RICHLAND / PUL	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	3	1	0	2	0	0	0	0	0	0	0	0	0
	DAMAGE	22	4	0	4	10	6	0	3	0	0	5	0	0
	TOTAL	25	5	0	6	10	6	0	3	0	0	5	0	0
ST. ROBERT	FATAL	2	2	1	1	0	0	0	0	0	0	1	0	0
	INJURY	82	18	7	31	15	10	3	0	0	2	17	0	2
	DAMAGE	290	43	15	86	62	29	1	1	0	0	58	0	4
	TOTAL	374	63	23	118	77	39	4	1	0	2	76	0	6
WAYNESVILLE	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	34	7	1	8	6	4	3	1	0	2	8	0	3
	DAMAGE	121	21	6	42	37	14	0	0	0	0	28	1	7
	TOTAL	155	28	7	50	43	18	3	1	0	2	36	1	10
POP UNDER 1000	FATAL	10	4	2	2	5	2	0	0	0	0	3	1	0
	INJURY	109	52	18	39	22	12	5	0	1	1	63	0	1
	DAMAGE	265	70	12	64	44	46	1	2	0	0	90	0	4
	TOTAL	384	126	32	105	71	60	6	2	1	1	156	1	5
PUTNAM CO	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	34	10	5	14	7	4	0	0	0	0	13	0	1
	DAMAGE	72	17	4	23	17	6	0	0	0	0	21	0	1
	TOTAL	106	27	9	37	24	10	0	0	0	0	34	0	2
UNIONVILLE	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	10	2	2	7	3	0	0	0	0	0	3	0	0
	DAMAGE	28	2	1	13	10	2	0	0	0	0	3	0	1
	TOTAL	38	4	3	20	13	2	0	0	0	0	6	0	1
POP UNDER 1000	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	24	8	3	7	4	4	0	0	0	0	10	0	1
	DAMAGE	44	15	3	10	7	4	0	0	0	0	18	0	0
	TOTAL	68	23	6	17	11	8	0	0	0	0	28	0	1
RALLS CO	FATAL	2	1	1	0	1	1	0	0	0	0	1	0	0
	INJURY	90	25	14	21	18	7	6	0	1	1	43	0	0
	DAMAGE	116	25	6	30	28	21	0	2	0	0	36	0	0
	TOTAL	208	51	21	51	47	29	6	2	1	1	80	0	0

**TABLE 4.0.1**

**2003 MISSOURI TRAFFIC CRASHES  
COUNTY AND CITY SUMMARY<sup>1</sup>**

CITY	CRASH SEVERITY	TOTAL ACCS	SPEED INV	DRINK INV	DRVR UND 21 INV	DRVR 55 + INV	COMM VEH INV	MOTOR-CYCLE INV	SCHOOL BUS INV	BIKE INV	PEDES-TRIAN INV	FIXED OBJECT INV	HAZ-ARD MATL INV	CONSTR/OTH WK ZONE INV
HANNIBAL / RAL	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	5	1	1	1	0	1	0	0	0	1	1	0	0
	DAMAGE	10	2	1	3	4	2	0	0	0	0	2	0	0
	TOTAL	15	3	2	4	4	3	0	0	0	1	3	0	0
MONROE CITY / RAL	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	0	0	0	0	0	0	0	0	0	0	0	0	0
	DAMAGE	1	0	0	0	0	0	0	0	0	0	0	0	0
	TOTAL	1	0	0	0	0	0	0	0	0	0	0	0	0
NEW LONDON	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	2	0	0	0	0	0	0	0	1	0	0	0	0
	DAMAGE	2	0	0	0	1	0	0	0	0	0	1	0	0
	TOTAL	4	0	0	0	1	0	0	0	1	0	1	0	0
POP UNDER 1000	FATAL	2	1	1	0	1	1	0	0	0	0	1	0	0
	INJURY	83	24	13	20	18	6	6	0	0	0	42	0	0
	DAMAGE	103	23	5	27	23	19	0	2	0	0	33	0	0
	TOTAL	188	48	19	47	42	26	6	2	0	0	76	0	0
RANDOLPH CO	FATAL	8	1	1	4	3	1	0	0	0	0	3	0	0
	INJURY	179	34	20	67	54	11	4	0	7	8	42	0	0
	DAMAGE	538	80	16	145	190	61	0	1	1	0	99	0	3
	TOTAL	725	115	37	216	247	73	4	1	8	8	144	0	3
HUNTSVILLE	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	2	1	0	1	0	0	1	0	1	0	0	0	0
	DAMAGE	2	0	0	1	0	0	0	0	0	0	0	0	0
	TOTAL	4	1	0	2	0	0	1	0	1	0	0	0	0
MOBERLY	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	90	5	3	41	36	3	1	0	6	5	5	0	0
	DAMAGE	366	35	6	109	150	42	0	1	1	0	43	0	2
	TOTAL	456	40	9	150	186	45	1	1	7	5	48	0	2
POP UNDER 1000	FATAL	8	1	1	4	3	1	0	0	0	0	3	0	0
	INJURY	87	28	17	25	18	8	2	0	0	3	37	0	0
	DAMAGE	170	45	10	35	40	19	0	0	0	0	56	0	1
	TOTAL	265	74	28	64	61	28	2	0	0	3	96	0	1
RAY CO	FATAL	3	2	2	2	0	0	1	0	0	0	3	0	0
	INJURY	128	50	11	41	25	8	3	0	0	1	59	0	1
	DAMAGE	287	85	17	99	70	35	0	4	0	1	95	0	0
	TOTAL	418	137	30	142	95	43	4	4	0	2	157	0	1
EXCELSIOR SPRINGS / RAY	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	0	0	0	0	0	0	0	0	0	0	0	0	0
	DAMAGE	2	1	0	1	1	0	0	0	0	0	0	0	0
	TOTAL	2	1	0	1	1	0	0	0	0	0	0	0	0
LAWSON / RAY	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	4	1	0	4	2	0	0	0	0	1	0	0	0
	DAMAGE	18	2	1	7	5	1	0	0	0	0	2	0	0
	TOTAL	22	3	1	11	7	1	0	0	0	1	2	0	0
RICHMOND	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	23	1	1	7	9	0	0	0	0	0	2	0	0
	DAMAGE	95	11	5	29	32	7	0	1	0	1	12	0	0
	TOTAL	118	12	6	36	41	7	0	1	0	1	14	0	0
POP UNDER 1000	FATAL	3	2	2	2	0	0	1	0	0	0	3	0	0
	INJURY	101	48	10	30	14	8	3	0	0	0	57	0	1
	DAMAGE	172	71	11	62	32	27	0	3	0	0	81	0	0
	TOTAL	276	121	23	94	46	35	4	3	0	0	141	0	1
REYNOLDS CO	FATAL	4	2	2	1	1	0	0	0	0	0	4	0	0
	INJURY	59	29	5	11	12	10	4	1	0	0	29	1	0
	DAMAGE	63	15	3	14	15	14	0	1	0	0	23	1	0
	TOTAL	126	46	10	26	28	24	4	2	0	0	56	2	0
POP UNDER 1000	FATAL	4	2	2	1	1	0	0	0	0	0	4	0	0
	INJURY	59	29	5	11	12	10	4	1	0	0	29	1	0
	DAMAGE	63	15	3	14	15	14	0	1	0	0	23	1	0
	TOTAL	126	46	10	26	28	24	4	2	0	0	56	2	0
RIPLEY CO	FATAL	5	1	2	0	1	1	1	0	0	0	3	0	0
	INJURY	95	28	23	27	19	5	3	1	1	0	45	0	0
	DAMAGE	163	39	10	46	48	12	0	1	0	0	49	0	1
	TOTAL	263	68	35	73	68	18	4	2	1	0	97	0	1

**TABLE 4.0.1**

**2003 MISSOURI TRAFFIC CRASHES  
COUNTY AND CITY SUMMARY<sup>1</sup>**

CITY	CRASH SEVERITY	TOTAL ACCS	SPEED INV	DRINK INV	DRVR UND 21 INV	DRVR 55 + INV	COMM VEH INV	MOTOR-CYCLE INV	SCHOOL BUS INV	BIKE INV	PEDES-TRIAN INV	FIXED OBJECT INV	HAZ-ARD MATL INV	CONSTR/ OTH WK ZONE INV
DONIPHAN	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	12	0	0	2	6	0	1	0	1	0	1	0	0
	DAMAGE	30	0	0	10	14	3	0	0	0	0	2	0	0
	TOTAL	42	0	0	12	20	3	1	0	1	0	3	0	0
POP UNDER 1000	FATAL	5	1	2	0	1	1	1	0	0	0	3	0	0
	INJURY	83	28	23	25	13	5	2	1	0	0	44	0	0
	DAMAGE	133	39	10	36	34	9	0	1	0	0	47	0	1
	TOTAL	221	68	35	61	48	15	3	2	0	0	94	0	1
ST. CHARLES CO	FATAL	23	11	5	5	6	5	5	2	0	2	8	0	0
	INJURY	1867	399	144	671	444	153	69	4	20	42	352	1	80
	DAMAGE	6856	991	224	2299	1497	763	15	62	6	5	868	3	331
	TOTAL	8746	1401	373	2975	1947	921	89	68	26	49	1228	4	411
COTTLEVILLE	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	36	8	0	18	8	2	0	1	0	1	6	0	7
	DAMAGE	148	18	2	79	23	8	0	3	0	0	26	0	17
	TOTAL	184	26	2	97	31	10	0	4	0	1	32	0	24
DARDENNE PRAIRIE	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	10	3	1	3	3	0	0	0	0	0	2	0	1
	DAMAGE	20	5	0	8	1	1	0	0	0	0	4	0	1
	TOTAL	30	8	1	11	4	1	0	0	0	0	6	0	2
LAKE ST. LOUIS	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	79	21	12	28	16	11	1	0	0	1	16	0	8
	DAMAGE	305	62	9	89	80	45	0	1	0	0	50	0	31
	TOTAL	384	83	21	117	96	56	1	1	0	1	66	0	39
O'FALLON	FATAL	3	0	0	1	1	0	0	0	0	1	1	0	0
	INJURY	383	63	27	145	100	27	6	0	4	4	48	0	9
	DAMAGE	1273	164	36	449	260	149	3	10	2	1	121	1	39
	TOTAL	1659	227	63	595	361	176	9	10	6	6	170	1	48
ST. CHARLES	FATAL	4	1	1	1	1	1	1	0	0	0	2	0	0
	INJURY	346	53	22	112	88	29	9	0	5	12	43	1	8
	DAMAGE	1798	216	58	528	428	154	4	6	0	2	178	0	44
	TOTAL	2148	270	81	641	517	184	14	6	5	14	223	1	52
ST. PAUL	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	1	0	0	0	0	0	0	0	0	0	1	0	0
	DAMAGE	1	0	0	1	0	0	0	0	0	0	1	0	0
	TOTAL	2	0	0	1	0	0	0	0	0	0	2	0	0
ST. PETERS	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	425	64	22	174	110	29	10	0	5	7	35	0	15
	DAMAGE	1478	168	54	560	340	147	2	10	2	0	147	0	64
	TOTAL	1903	232	76	734	450	176	12	10	7	7	182	0	79
WELDON SPRING	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	12	4	0	8	0	1	1	0	0	0	6	0	3
	DAMAGE	41	6	3	12	6	7	0	1	0	0	7	0	8
	TOTAL	53	10	3	20	6	8	1	1	0	0	13	0	11
WENTZVILLE	FATAL	1	0	0	0	0	1	0	1	0	0	0	0	0
	INJURY	104	25	11	29	25	16	0	1	1	3	29	0	6
	DAMAGE	439	87	8	118	98	82	0	10	0	0	90	2	41
	TOTAL	544	112	19	147	123	99	0	12	1	3	119	2	47
POP UNDER 1000	FATAL	15	10	4	3	4	3	4	1	0	1	5	0	0
	INJURY	471	158	49	154	94	38	42	2	5	14	166	0	23
	DAMAGE	1353	265	54	455	261	170	6	21	2	2	244	0	86
	TOTAL	1839	433	107	612	359	211	52	24	7	17	415	0	109
ST. CLAIR CO	FATAL	6	1	1	1	3	1	0	0	0	1	1	0	0
	INJURY	85	26	4	16	31	13	4	0	1	0	41	1	0
	DAMAGE	145	30	8	36	33	19	0	0	0	0	48	0	0
	TOTAL	236	57	13	53	67	33	4	0	1	1	90	1	0
APPLETON CITY	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	0	0	0	0	0	0	0	0	0	0	0	0	0
	DAMAGE	7	0	0	3	2	0	0	0	0	0	1	0	0
	TOTAL	7	0	0	3	2	0	0	0	0	0	1	0	0
POP UNDER 1000	FATAL	6	1	1	1	3	1	0	0	0	1	1	0	0
	INJURY	85	26	4	16	31	13	4	0	1	0	41	1	0
	DAMAGE	138	30	8	33	31	19	0	0	0	0	47	0	0
	TOTAL	229	57	13	50	65	33	4	0	1	1	89	1	0

**TABLE 4.0.1**

**2003 MISSOURI TRAFFIC CRASHES  
COUNTY AND CITY SUMMARY<sup>1</sup>**

CITY	CRASH SEVERITY	TOTAL ACCS	SPEED INV	DRINK INV	DRVR UND 21 INV	DRVR 55 + INV	COMM VEH INV	MOTOR-CYCLE INV	SCHOOL BUS INV	BIKE INV	PEDES-TRIAN INV	FIXED OBJECT INV	HAZ-ARD MATL INV	CONSTR/OTH WK ZONE INV
ST. FRANCOIS CO	FATAL	12	5	3	3	2	1	2	0	1	0	3	0	0
	INJURY	429	137	40	137	104	26	9	2	5	8	154	1	8
	DAMAGE	1218	185	37	370	322	107	0	11	1	1	228	0	20
	TOTAL	1659	327	80	510	428	134	11	13	7	9	385	1	28
BONNE TERRE	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	12	4	1	2	5	1	0	0	0	1	3	0	0
	DAMAGE	72	9	2	18	24	10	0	1	0	0	8	0	0
	TOTAL	84	13	3	20	29	11	0	1	0	1	11	0	0
DESLOGE	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	17	2	1	10	5	1	0	0	1	1	0	0	0
	DAMAGE	108	4	2	41	27	8	0	1	0	0	12	0	3
	TOTAL	125	6	3	51	32	9	0	1	1	1	12	0	3
FARMINGTON	FATAL	2	0	0	0	0	0	0	0	1	0	1	0	0
	INJURY	92	13	6	34	33	2	0	1	2	2	9	0	1
	DAMAGE	425	38	5	136	137	25	0	2	1	1	35	0	9
	TOTAL	519	51	11	170	170	27	0	3	4	3	45	0	10
LEADWOOD	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	0	0	0	0	0	0	0	0	0	0	0	0	0
	DAMAGE	2	0	0	1	0	0	0	0	0	0	0	0	0
	TOTAL	2	0	0	1	0	0	0	0	0	0	0	0	0
PARK HILL	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	48	15	3	10	15	3	5	0	0	2	13	0	0
	DAMAGE	145	17	4	46	27	14	0	2	0	0	23	0	0
	TOTAL	193	32	7	56	42	17	5	2	0	2	36	0	0
POP UNDER 1000	FATAL	10	5	3	3	2	1	2	0	0	0	2	0	0
	INJURY	260	103	29	81	46	19	4	1	2	2	129	1	7
	DAMAGE	466	117	24	128	107	50	0	5	0	0	150	0	8
	TOTAL	736	225	56	212	155	70	6	6	2	2	281	1	15
ST. LOUIS CO	FATAL	79	37	13	18	23	9	10	0	0	6	25	0	8
	INJURY	7563	1539	423	2138	2215	524	151	50	125	238	1126	1	324
	DAMAGE	25225	3713	652	6487	6582	2428	47	212	36	17	2797	7	1176
	TOTAL	32867	5289	1088	8643	8820	2961	208	262	161	261	3948	8	1508
BALLWIN	FATAL	2	0	1	0	1	0	0	0	0	0	0	0	0
	INJURY	113	29	4	54	29	1	2	0	2	2	16	0	0
	DAMAGE	464	106	10	177	128	25	1	5	1	0	57	0	6
	TOTAL	579	135	15	231	158	26	3	5	3	2	73	0	6
BELLEFONTAINE NEIGHBORS	FATAL	1	1	0	1	0	0	0	0	0	0	1	0	1
	INJURY	61	29	0	15	16	9	0	3	0	2	23	0	0
	DAMAGE	252	63	3	53	54	25	1	5	1	0	44	0	3
	TOTAL	314	93	3	69	70	34	1	8	1	2	68	0	4
BEL-NOR	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	5	3	0	2	0	0	2	0	0	0	0	0	0
	DAMAGE	22	5	2	5	5	2	0	1	0	0	6	0	0
	TOTAL	27	8	2	7	5	2	2	1	0	0	6	0	0
BEL-RIDGE	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	40	9	2	8	8	3	1	0	0	1	6	0	1
	DAMAGE	98	12	6	24	22	7	1	0	2	0	11	0	1
	TOTAL	138	21	8	32	30	10	2	0	2	1	17	0	2
BERKELEY	FATAL	3	0	2	0	1	0	0	0	0	1	0	0	0
	INJURY	165	55	5	28	31	15	8	1	1	3	38	0	24
	DAMAGE	477	86	4	84	121	49	0	2	0	0	70	0	73
	TOTAL	645	141	11	112	153	64	8	3	1	4	108	0	97
BLACK JACK	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	18	7	0	6	1	0	0	0	0	0	6	0	0
	DAMAGE	66	13	0	18	15	2	0	1	0	0	15	0	1
	TOTAL	84	20	0	24	16	2	0	1	0	0	21	0	1
BRECKENRIDGE HILLS	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	30	5	4	6	14	1	0	0	2	1	1	0	0
	DAMAGE	108	7	4	22	31	7	0	1	0	0	9	0	1
	TOTAL	138	12	8	28	45	8	0	1	2	1	10	0	1
BRENTWOOD	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	70	18	2	19	20	5	1	0	1	2	6	0	1
	DAMAGE	330	39	6	65	84	34	1	2	0	0	23	0	6
	TOTAL	400	57	8	84	104	39	2	2	1	2	29	0	7

**TABLE 4.0.1**

**2003 MISSOURI TRAFFIC CRASHES  
COUNTY AND CITY SUMMARY<sup>1</sup>**

CITY	CRASH SEVERITY	TOTAL ACCS	SPEED INV	DRINK INV	DRVR UND 21 INV	DRVR 55 + INV	COMM VEH INV	MOTOR-CYCLE INV	SCHOOL BUS INV	BIKE INV	PEDES-TRIAN INV	FIXED OBJECT INV	HAZ-ARD MATL INV	CONSTR/OTH WK ZONE INV
BRIDGETON	FATAL	5	1	3	1	1	1	1	0	0	0	1	0	0
	INJURY	309	50	16	64	78	32	6	1	1	8	43	0	27
	DAMAGE	686	114	10	124	193	109	1	4	1	0	96	0	52
	TOTAL	1000	165	29	189	272	142	8	5	2	8	140	0	79
CALVERTON PARK	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	9	1	0	6	1	2	0	1	0	0	0	0	0
	DAMAGE	26	1	0	7	7	1	0	0	0	0	2	0	0
	TOTAL	35	2	0	13	8	3	0	1	0	0	2	0	0
CHARLACK	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	2	0	1	0	1	0	0	0	1	0	0	0	0
	DAMAGE	6	2	0	1	3	2	0	0	0	0	0	0	0
	TOTAL	8	2	1	1	4	2	0	0	1	0	0	0	0
CHESTERFIELD	FATAL	1	0	0	0	1	1	0	0	0	0	0	0	0
	INJURY	406	81	24	142	126	20	6	2	4	7	75	0	3
	DAMAGE	1081	163	38	315	288	86	1	9	0	0	145	0	14
	TOTAL	1488	244	62	457	415	107	7	11	4	7	220	0	17
CLARKSON VALLEY	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	7	4	2	5	1	0	0	0	0	0	4	0	0
	DAMAGE	21	10	0	12	3	0	0	0	0	0	5	0	0
	TOTAL	28	14	2	17	4	0	0	0	0	0	9	0	0
CLAYTON	FATAL	1	0	0	0	0	0	0	0	0	1	0	0	0
	INJURY	112	4	8	22	31	6	1	0	3	10	11	0	1
	DAMAGE	631	56	9	109	147	78	2	3	1	1	59	0	10
	TOTAL	744	60	17	131	178	84	3	3	4	12	70	0	11
COOL VALLEY	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	15	2	2	2	4	5	0	0	0	0	0	0	9
	DAMAGE	51	5	0	10	10	8	0	0	0	1	4	0	36
	TOTAL	66	7	2	12	14	13	0	0	0	1	4	0	45
COUNTRY CLUB HILLS	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	15	6	1	5	7	0	1	0	0	1	0	0	0
	DAMAGE	58	15	1	17	14	2	0	0	0	1	2	0	0
	TOTAL	73	21	2	22	21	2	1	0	0	2	2	0	0
CRESTWOOD	FATAL	1	0	0	0	1	0	0	0	0	0	0	0	0
	INJURY	55	11	3	21	22	3	0	0	2	1	11	0	4
	DAMAGE	137	26	3	44	47	14	1	1	1	0	14	0	7
	TOTAL	193	37	6	65	70	17	1	1	3	1	25	0	11
CREVE COEUR	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	286	35	6	66	121	18	5	4	1	4	19	0	31
	DAMAGE	995	118	17	241	342	67	1	7	0	0	67	1	161
	TOTAL	1281	153	23	307	463	85	6	11	1	4	86	1	192
DELLWOOD	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	28	1	0	10	6	1	1	0	1	1	1	0	0
	DAMAGE	82	10	0	15	12	6	0	0	0	0	10	0	0
	TOTAL	110	11	0	25	18	7	1	0	1	1	11	0	0
DES PERES	FATAL	1	1	0	0	0	0	0	0	0	0	0	0	0
	INJURY	104	12	8	25	34	9	0	1	2	2	9	0	1
	DAMAGE	364	43	14	91	113	40	0	0	1	1	52	0	1
	TOTAL	469	56	22	116	147	49	0	1	3	3	61	0	2
ELLISVILLE	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	84	10	0	35	21	2	2	1	0	0	3	0	0
	DAMAGE	316	25	1	122	90	11	0	4	0	0	13	0	0
	TOTAL	400	35	1	157	111	13	2	5	0	0	16	0	0
EUREKA	FATAL	1	1	0	0	1	0	0	0	0	0	0	0	0
	INJURY	93	29	4	32	19	9	3	0	0	0	22	0	16
	DAMAGE	266	46	5	75	57	48	1	4	0	0	42	0	56
	TOTAL	360	76	9	107	77	57	4	4	0	0	64	0	72
FENTON	FATAL	4	1	0	1	1	0	2	0	0	1	1	0	1
	INJURY	37	6	2	11	12	1	2	0	1	1	1	0	2
	DAMAGE	143	17	2	29	38	20	0	0	0	0	13	0	5
	TOTAL	184	24	4	41	51	21	4	0	1	2	15	0	8
FERGUSON	FATAL	1	1	0	1	0	0	0	0	0	0	0	0	0
	INJURY	146	21	7	31	37	10	1	3	7	6	18	0	1
	DAMAGE	412	70	12	96	101	42	2	9	1	0	51	0	2
	TOTAL	559	92	19	128	138	52	3	12	8	6	69	0	3

**TABLE 4.0.1**

**2003 MISSOURI TRAFFIC CRASHES  
COUNTY AND CITY SUMMARY<sup>1</sup>**

CITY	CRASH SEVERITY	TOTAL ACCS	SPEED INV	DRINK INV	DRVR UND 21 INV	DRVR 55 + INV	COMM VEH INV	MOTOR- CYCLE INV	SCHOOL BUS INV	BIKE INV	PEDES- TRIAN INV	FIXED OBJECT INV	HAZ- ARD MATL INV	CONSTR/ OTH WK ZONE INV
FLORISSANT	FATAL	3	1	0	1	1	1	0	0	0	0	0	0	1
	INJURY	439	73	15	145	131	30	7	2	9	17	30	0	38
	DAMAGE	1295	108	38	375	390	114	3	6	1	1	81	0	58
	TOTAL	1737	182	53	521	522	145	10	8	10	18	111	0	97
FRONTENAC	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	65	16	3	21	18	6	1	0	2	1	11	0	0
	DAMAGE	174	32	7	54	45	10	0	2	0	0	18	0	3
	TOTAL	239	48	10	75	63	16	1	2	2	1	29	0	3
GLENDALE	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	18	5	0	5	5	0	0	0	1	3	1	0	0
	DAMAGE	67	3	1	20	27	6	0	0	0	0	3	0	1
	TOTAL	85	8	1	25	32	6	0	0	1	3	4	0	1
GREEN PARK	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	4	0	0	2	2	0	0	0	0	0	2	0	0
	DAMAGE	20	2	1	5	3	3	0	1	0	0	6	0	0
	TOTAL	24	2	1	7	5	3	0	1	0	0	8	0	0
HANLEY HILLS	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	1	0	0	0	0	0	0	0	0	0	0	0	0
	DAMAGE	8	1	0	1	2	0	0	0	0	0	0	0	0
	TOTAL	9	1	0	1	2	0	0	0	0	0	0	0	0
HAZELWOOD	FATAL	6	2	0	2	3	1	0	0	0	0	1	0	1
	INJURY	271	66	13	84	72	22	6	0	0	4	36	0	43
	DAMAGE	708	112	12	159	190	106	2	2	1	0	50	1	145
	TOTAL	985	180	25	245	265	129	8	2	1	4	87	1	189
HILLSDALE	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	3	1	0	0	0	1	0	0	0	0	1	0	0
	DAMAGE	22	4	0	2	4	2	0	1	0	0	3	0	0
	TOTAL	25	5	0	2	4	3	0	1	0	0	4	0	0
JENNINGS	FATAL	1	1	0	0	1	0	0	0	0	0	0	0	0
	INJURY	93	18	5	22	27	2	0	0	3	10	8	0	1
	DAMAGE	309	41	15	51	70	17	0	1	1	1	30	0	1
	TOTAL	403	60	20	73	98	19	0	1	4	11	38	0	2
KIRKWOOD	FATAL	3	2	1	1	0	0	1	0	0	0	2	0	0
	INJURY	246	47	11	75	84	13	3	1	5	10	37	0	1
	DAMAGE	963	145	22	267	291	74	4	8	2	1	108	1	16
	TOTAL	1212	194	34	343	375	87	8	9	7	11	147	1	17
LADUE	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	113	28	6	29	40	6	1	3	3	2	33	0	0
	DAMAGE	407	73	13	125	114	43	1	1	0	0	66	0	4
	TOTAL	520	101	19	154	154	49	2	4	3	2	99	0	4
MANCHESTER	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	93	19	6	30	31	3	3	2	1	1	14	0	5
	DAMAGE	354	69	10	116	89	28	0	6	0	0	50	1	11
	TOTAL	447	88	16	146	120	31	3	8	1	1	64	1	16
MAPLEWOOD	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	47	3	4	10	13	0	1	0	3	1	5	0	0
	DAMAGE	184	16	8	35	32	20	1	0	1	0	25	0	11
	TOTAL	231	19	12	45	45	20	2	0	4	1	30	0	11
MARLBOROUGH	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	4	1	0	1	1	0	0	0	0	0	0	0	0
	DAMAGE	38	2	0	14	16	2	0	0	0	0	2	0	0
	TOTAL	42	3	0	15	17	2	0	0	0	0	2	0	0
MARYLAND HEIGHTS	FATAL	2	1	1	0	1	1	0	0	0	0	0	0	1
	INJURY	343	80	28	89	91	29	9	2	3	5	51	0	7
	DAMAGE	1396	197	67	300	290	147	2	10	0	0	136	1	35
	TOTAL	1741	278	96	389	382	177	11	12	3	5	187	1	43
MOLINE ACRES	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	13	3	0	2	5	1	1	1	0	2	0	0	1
	DAMAGE	53	5	3	11	12	3	0	3	0	0	5	0	9
	TOTAL	66	8	3	13	17	4	1	4	0	2	5	0	10
NORMANDY	FATAL	1	1	0	1	1	0	0	0	0	0	0	0	0
	INJURY	25	5	1	5	4	2	0	0	0	1	11	0	6
	DAMAGE	119	13	0	16	25	13	0	2	0	0	19	0	30
	TOTAL	145	19	1	22	30	15	0	2	0	1	30	0	36

**TABLE 4.0.1**

**2003 MISSOURI TRAFFIC CRASHES  
COUNTY AND CITY SUMMARY<sup>1</sup>**

CITY	CRASH SEVERITY	TOTAL ACCS	SPEED INV	DRINK INV	DRVR UND 21 INV	DRVR 55 + INV	COMM VEH INV	MOTOR-CYCLE INV	SCHOOL BUS INV	BIKE INV	PEDES-TRIAN INV	FIXED OBJECT INV	HAZ-ARD MATL INV	CONSTR/ OTH WK ZONE INV
NORTHWOODS	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	27	5	3	6	8	2	1	0	2	3	5	0	0
	DAMAGE	51	11	0	12	11	2	0	0	0	0	7	0	1
	TOTAL	78	16	3	18	19	4	1	0	2	3	12	0	1
NORWOOD COURT	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	12	4	1	2	3	1	0	0	0	1	3	0	1
	DAMAGE	26	9	1	5	4	3	0	0	0	0	8	0	2
	TOTAL	38	13	2	7	7	4	0	0	0	1	11	0	3
OAKLAND	FATAL	1	0	1	0	0	0	0	0	0	0	1	0	0
	INJURY	9	5	1	3	2	1	1	0	0	0	4	0	0
	DAMAGE	26	6	0	7	7	3	0	0	0	0	7	0	1
	TOTAL	36	11	2	10	9	4	1	0	0	0	12	0	1
OLIVETTE	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	45	11	2	12	15	0	0	0	1	1	6	0	0
	DAMAGE	124	27	3	33	38	13	1	0	1	0	12	0	0
	TOTAL	169	38	5	45	53	13	1	0	2	1	18	0	0
OVERLAND	FATAL	1	0	0	0	1	0	0	0	0	0	0	0	0
	INJURY	121	36	7	20	30	15	2	1	1	8	28	0	2
	DAMAGE	564	108	14	99	121	71	1	4	1	2	60	1	4
	TOTAL	686	144	21	119	152	86	3	5	2	10	88	1	6
PACIFIC / STL	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	1	0	0	1	1	1	0	0	0	0	0	0	0
	DAMAGE	2	0	0	0	1	1	0	0	0	0	0	0	0
	TOTAL	3	0	0	1	2	2	0	0	0	0	0	0	0
PAGEDALE	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	13	3	0	3	3	5	0	1	1	3	1	0	0
	DAMAGE	31	6	0	5	8	0	0	2	0	0	2	0	0
	TOTAL	44	9	0	8	11	5	0	3	1	3	3	0	0
PASADENA HILLS	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	2	0	0	1	1	0	0	0	0	0	0	0	0
	DAMAGE	9	3	0	1	3	1	0	0	0	0	1	0	0
	TOTAL	11	3	0	2	4	1	0	0	0	0	1	0	0
PINE LAWN	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	43	22	6	9	10	4	1	1	1	2	12	0	3
	DAMAGE	124	29	6	25	27	17	1	5	1	0	17	0	4
	TOTAL	167	51	12	34	37	21	2	6	2	2	29	0	7
RICHMOND HEIGHTS	FATAL	1	1	0	1	0	0	0	0	0	0	1	0	0
	INJURY	235	49	6	48	59	13	1	3	0	4	20	0	0
	DAMAGE	722	104	9	152	164	55	1	3	0	0	47	0	1
	TOTAL	958	154	15	201	223	68	2	6	0	4	68	0	1
RIVERVIEW	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	8	2	0	3	3	0	0	0	1	1	3	0	0
	DAMAGE	34	2	0	9	4	2	0	0	1	0	7	0	0
	TOTAL	42	4	0	12	7	2	0	0	2	1	10	0	0
ROCK HILL	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	11	5	0	3	6	0	0	0	1	0	2	0	0
	DAMAGE	99	32	3	24	36	5	0	1	0	0	4	0	0
	TOTAL	110	37	3	27	42	5	0	1	1	0	6	0	0
ST. ANN	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	79	15	5	20	27	2	3	0	3	9	6	0	1
	DAMAGE	288	31	17	63	78	19	0	2	1	0	29	0	13
	TOTAL	367	46	22	83	105	21	3	2	4	9	35	0	14
ST. GEORGE	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	1	0	0	1	0	0	1	0	0	0	1	0	0
	DAMAGE	13	0	0	2	8	1	0	1	0	0	3	0	1
	TOTAL	14	0	0	3	8	1	1	1	0	0	4	0	1
ST. JOHN	FATAL	1	0	0	0	1	0	0	0	0	0	0	0	0
	INJURY	39	9	3	11	8	2	1	0	1	0	2	0	2
	DAMAGE	155	15	1	31	49	7	1	1	0	1	11	0	1
	TOTAL	195	24	4	42	58	9	2	1	1	1	13	0	3
SHREWSBURY	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	28	8	4	8	7	1	0	0	0	2	7	0	0
	DAMAGE	149	17	5	40	43	13	0	1	1	1	15	0	1
	TOTAL	177	25	9	48	50	14	0	1	1	3	22	0	1

**TABLE 4.0.1**



**2003 MISSOURI TRAFFIC CRASHES  
COUNTY AND CITY SUMMARY<sup>1</sup>**

CITY	CRASH SEVERITY	TOTAL ACCS	SPEED INV	DRINK INV	DRVR UND 21 INV	DRVR 55 + INV	COMM VEH INV	MOTOR- CYCLE INV	SCHOOL BUS INV	BIKE INV	PEDES- TRIAN INV	FIXED OBJECT INV	HAZ- ARD MATL INV	CONSTR/ OTH WK ZONE INV
SUNSET HILLS	FATAL	4	2	1	1	0	0	1	0	0	0	4	0	0
	INJURY	277	40	5	81	83	21	8	2	1	4	46	0	4
	DAMAGE	690	74	11	182	170	68	1	2	0	0	81	0	12
	TOTAL	971	116	17	264	253	89	10	4	1	4	131	0	16
TOWN AND COUNTRY	FATAL	1	1	0	0	0	0	1	0	0	0	1	0	0
	INJURY	275	47	17	65	98	20	2	2	2	3	28	0	2
	DAMAGE	623	92	13	173	170	62	0	5	0	0	58	1	3
	TOTAL	899	140	30	238	268	82	3	7	2	3	87	1	5
UNIVERSITY CITY	FATAL	2	1	1	0	0	0	0	0	0	1	1	0	0
	INJURY	186	24	15	31	63	8	5	1	10	9	23	0	3
	DAMAGE	748	52	15	131	197	57	1	7	4	0	63	0	13
	TOTAL	936	77	31	162	260	65	6	8	14	10	87	0	16
VALLEY PARK	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	23	4	1	5	3	3	2	0	0	0	4	0	0
	DAMAGE	103	20	5	35	15	10	0	4	1	0	24	0	2
	TOTAL	126	24	6	40	18	13	2	4	1	0	28	0	2
VELDA VILLAGE	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	4	2	1	0	1	0	0	0	0	0	0	0	0
	DAMAGE	13	4	0	4	2	0	0	0	0	0	2	0	0
	TOTAL	17	6	1	4	3	0	0	0	0	0	2	0	0
VELDA VILLAGE HILLS	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	2	0	1	0	0	0	0	0	0	1	1	0	0
	DAMAGE	5	1	0	0	0	1	0	0	0	0	0	0	0
	TOTAL	7	1	1	0	0	1	0	0	0	1	1	0	0
VINITA PARK	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	13	3	0	1	3	1	0	0	2	1	2	0	0
	DAMAGE	45	4	2	6	13	5	0	0	0	0	9	0	0
	TOTAL	58	7	2	7	16	6	0	0	2	1	11	0	0
WARSON WOODS	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	1	1	0	0	0	0	0	0	0	0	0	0	0
	DAMAGE	8	2	0	2	3	1	0	0	0	0	2	0	0
	TOTAL	9	3	0	2	3	1	0	0	0	0	2	0	0
WEBSTER GROVES	FATAL	1	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	105	28	8	28	34	10	4	0	8	3	16	0	0
	DAMAGE	480	82	9	128	133	45	1	2	1	1	48	0	7
	TOTAL	586	110	17	156	167	55	5	2	9	4	64	0	7
WELLSTON	FATAL	1	1	0	0	0	0	0	0	0	0	1	0	0
	INJURY	35	9	1	10	6	2	1	0	0	3	3	0	0
	DAMAGE	70	7	1	11	16	15	0	0	0	1	5	0	0
	TOTAL	106	17	2	21	22	17	1	0	0	4	9	0	0
WILDWOOD	FATAL	2	0	0	1	0	0	0	0	0	0	0	0	0
	INJURY	98	30	10	50	14	4	1	0	1	3	39	0	1
	DAMAGE	317	77	11	148	46	27	1	8	0	0	94	0	4
	TOTAL	417	107	21	199	60	31	2	8	1	3	133	0	5
WINCHESTER	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	12	1	1	2	5	0	0	0	0	1	0	0	0
	DAMAGE	35	5	1	15	11	2	0	0	0	0	3	0	0
	TOTAL	47	6	2	17	16	2	0	0	0	1	3	0	0
WOODSON TERRACE	FATAL	1	1	0	0	0	0	0	0	0	0	0	0	0
	INJURY	16	3	1	3	3	2	0	1	1	0	4	0	1
	DAMAGE	91	21	3	17	12	7	0	1	0	0	7	0	5
	TOTAL	108	25	4	20	15	9	0	2	1	0	11	0	6
POP UNDER 1000	FATAL	26	16	2	6	7	4	4	0	0	2	10	0	3
	INJURY	1855	381	131	576	555	139	44	10	29	67	307	1	81
	DAMAGE	6371	997	178	1820	1667	642	12	62	9	4	759	0	342
	TOTAL	8252	1394	311	2402	2229	785	60	72	38	73	1076	1	426
STE. GENEVIEVE CO	FATAL	4	1	0	0	2	0	0	0	0	0	4	0	0
	INJURY	116	40	17	34	20	15	2	0	3	3	57	0	1
	DAMAGE	326	85	14	86	72	30	0	0	0	0	101	1	1
	TOTAL	446	126	31	120	94	45	2	0	3	3	162	1	2
STE. GENEVIEVE	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	18	3	0	7	4	1	0	0	3	2	1	0	0
	DAMAGE	73	12	3	31	24	2	0	0	0	0	15	0	1
	TOTAL	91	15	3	38	28	3	0	0	3	2	16	0	1

**TABLE 4.0.1**

**2003 MISSOURI TRAFFIC CRASHES  
COUNTY AND CITY SUMMARY<sup>1</sup>**

CITY	CRASH SEVERITY	TOTAL ACCS	SPEED INV	DRINK INV	DRVR UND 21 INV	DRVR 55 + INV	COMM VEH INV	MOTOR-CYCLE INV	SCHOOL BUS INV	BIKE INV	PEDES-TRIAN INV	FIXED OBJECT INV	HAZ-ARD MATL INV	CONSTR/OTH WK ZONE INV
POP UNDER 1000	FATAL	4	1	0	0	2	0	0	0	0	0	4	0	0
	INJURY	98	37	17	27	16	14	2	0	0	1	56	0	1
	DAMAGE	253	73	11	55	48	28	0	0	0	0	86	1	0
	TOTAL	355	111	28	82	66	42	2	0	0	1	146	1	1
SALINE CO	FATAL	8	4	2	3	3	0	1	0	0	0	4	0	0
	INJURY	165	48	16	54	40	22	1	0	2	5	74	0	0
	DAMAGE	397	58	15	100	112	53	2	2	1	0	88	0	5
	TOTAL	570	110	33	157	155	75	4	2	3	5	166	0	5
MARSHALL	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	52	6	3	19	17	4	0	0	1	2	8	0	0
	DAMAGE	201	18	7	61	61	9	2	0	1	0	18	0	3
	TOTAL	253	24	10	80	78	13	2	0	2	2	26	0	3
SLATER	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	1	1	0	0	1	0	0	0	0	0	0	0	0
	DAMAGE	19	3	1	6	6	2	0	0	0	0	0	0	0
	TOTAL	20	4	1	6	7	2	0	0	0	0	0	0	0
SWEET SPRINGS	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	1	0	0	0	0	0	0	0	1	0	0	0	0
	DAMAGE	10	0	1	4	2	0	0	0	0	0	5	0	0
	TOTAL	11	0	1	4	2	0	0	0	1	0	5	0	0
POP UNDER 1000	FATAL	8	4	2	3	3	0	1	0	0	0	4	0	0
	INJURY	111	41	13	35	22	18	1	0	0	3	66	0	0
	DAMAGE	167	37	6	29	43	42	0	2	0	0	65	0	2
	TOTAL	286	82	21	67	68	60	2	2	0	3	135	0	2
SCHUYLER CO	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	32	8	3	3	8	2	1	0	0	0	12	0	1
	DAMAGE	30	3	2	5	6	2	0	0	0	0	5	0	1
	TOTAL	62	11	5	8	14	4	1	0	0	0	17	0	2
POP UNDER 1000	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	32	8	3	3	8	2	1	0	0	0	12	0	1
	DAMAGE	30	3	2	5	6	2	0	0	0	0	5	0	1
	TOTAL	62	11	5	8	14	4	1	0	0	0	17	0	2
SCOTLAND CO	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	30	7	5	11	5	4	0	0	0	0	13	0	0
	DAMAGE	69	5	3	18	21	14	0	0	1	0	14	0	1
	TOTAL	99	12	8	29	26	18	0	0	1	0	27	0	1
MEMPHIS	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	8	1	1	2	4	1	0	0	0	0	0	0	0
	DAMAGE	39	2	2	12	16	6	0	0	1	0	3	0	1
	TOTAL	47	3	3	14	20	7	0	0	1	0	3	0	1
POP UNDER 1000	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	22	6	4	9	1	3	0	0	0	0	13	0	0
	DAMAGE	30	3	1	6	5	8	0	0	0	0	11	0	0
	TOTAL	52	9	5	15	6	11	0	0	0	0	24	0	0
SCOTT CO	FATAL	3	2	1	2	0	0	0	0	0	0	1	0	0
	INJURY	239	59	29	87	52	16	6	1	5	13	70	0	5
	DAMAGE	702	109	29	203	198	67	1	6	1	0	129	0	6
	TOTAL	944	170	59	292	250	83	7	7	6	13	200	0	11
CAPE GIRARDEAU / SCO	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	1	0	0	1	0	0	0	0	0	0	1	0	0
	DAMAGE	1	0	0	1	0	0	0	0	0	0	0	0	0
	TOTAL	2	0	0	2	0	0	0	0	0	0	1	0	0
CHAFFEE	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	3	0	0	0	1	0	0	0	0	0	1	0	0
	DAMAGE	35	3	5	15	12	2	0	2	0	0	4	0	0
	TOTAL	38	3	5	15	13	2	0	2	0	0	5	0	0
MINER	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	8	2	2	2	2	0	0	0	1	1	1	0	0
	DAMAGE	20	5	0	1	6	3	0	0	0	0	4	0	0
	TOTAL	28	7	2	3	8	3	0	0	1	1	5	0	0
ORAN	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	4	1	1	2	0	0	0	0	0	1	3	0	0
	DAMAGE	4	1	2	2	1	1	0	0	0	0	1	0	0
	TOTAL	8	2	3	4	1	1	0	0	0	1	4	0	0

**TABLE 4.0.1**

**2003 MISSOURI TRAFFIC CRASHES  
COUNTY AND CITY SUMMARY<sup>1</sup>**

CITY	CRASH SEVERITY	TOTAL ACCS	SPEED INV	DRINK INV	DRVR UND 21 INV	DRVR 55 + INV	COMM VEH INV	MOTOR- CYCLE INV	SCHOOL BUS INV	BIKE INV	PEDES- TRIAN INV	FIXED OBJECT INV	HAZ- ARD MATL INV	CONSTR/ OTH WK ZONE INV
SCOTT CITY	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	24	10	1	11	9	4	0	0	0	0	5	0	4
	DAMAGE	98	16	3	29	25	12	0	1	1	0	16	0	5
	TOTAL	122	26	4	40	34	16	0	1	1	0	21	0	9
SIKESTON / SCO	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	88	6	1	36	24	4	0	0	4	9	10	0	0
	DAMAGE	382	38	7	113	126	26	0	2	0	0	47	0	1
	TOTAL	470	44	8	149	150	30	0	2	4	9	57	0	1
POP UNDER 1000	FATAL	3	2	1	2	0	0	0	0	0	0	1	0	0
	INJURY	111	40	24	35	16	8	6	1	0	2	49	0	1
	DAMAGE	162	46	12	42	28	23	1	1	0	0	57	0	0
	TOTAL	276	88	37	79	44	31	7	2	0	2	107	0	1
SHANNONCO	FATAL	3	3	0	1	0	0	0	0	0	0	2	0	0
	INJURY	50	22	6	13	16	9	3	0	0	0	19	0	0
	DAMAGE	66	18	3	15	15	14	0	0	0	0	21	0	0
	TOTAL	119	43	9	29	31	23	3	0	0	0	42	0	0
WINONA	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	4	0	0	1	2	1	0	0	0	0	0	0	0
	DAMAGE	14	2	1	4	5	0	0	0	0	0	2	0	0
	TOTAL	18	2	1	5	7	1	0	0	0	0	2	0	0
POP UNDER 1000	FATAL	3	3	0	1	0	0	0	0	0	0	2	0	0
	INJURY	46	22	6	12	14	8	3	0	0	0	19	0	0
	DAMAGE	52	16	2	11	10	14	0	0	0	0	19	0	0
	TOTAL	101	41	8	24	24	22	3	0	0	0	40	0	0
SHELBYCO	FATAL	2	0	0	0	1	0	0	0	0	0	0	0	0
	INJURY	29	10	0	9	7	7	2	0	0	0	6	0	0
	DAMAGE	70	12	5	14	23	15	0	0	0	0	16	1	0
	TOTAL	101	22	5	23	31	22	2	0	0	0	22	1	0
SHELBYNA	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	5	1	0	1	3	3	0	0	0	0	0	0	0
	DAMAGE	14	2	0	5	6	3	0	0	0	0	1	0	0
	TOTAL	19	3	0	6	9	6	0	0	0	0	1	0	0
POP UNDER 1000	FATAL	2	0	0	0	1	0	0	0	0	0	0	0	0
	INJURY	24	9	0	8	4	4	2	0	0	0	6	0	0
	DAMAGE	56	10	5	9	17	12	0	0	0	0	15	1	0
	TOTAL	82	19	5	17	22	16	2	0	0	0	21	1	0
STODDARD CO	FATAL	11	4	2	3	2	3	0	0	0	0	4	0	0
	INJURY	191	51	25	62	40	12	4	0	3	2	68	0	0
	DAMAGE	421	68	23	115	128	44	3	0	1	1	87	0	3
	TOTAL	623	123	50	180	170	59	7	0	4	3	159	0	3
ADVANCE	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	2	0	0	0	1	0	0	0	0	0	0	0	0
	DAMAGE	29	1	1	8	11	0	0	0	1	0	4	0	0
	TOTAL	31	1	1	8	12	0	0	0	1	0	4	0	0
BERNIE	FATAL	1	1	0	1	0	0	0	0	0	0	1	0	0
	INJURY	4	1	0	2	0	0	0	0	1	0	0	0	0
	DAMAGE	5	0	0	3	2	0	0	0	0	0	0	0	0
	TOTAL	10	2	0	6	2	0	0	0	1	0	1	0	0
BLOOMFIELD	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	5	2	0	1	1	1	0	0	0	1	1	0	0
	DAMAGE	19	2	0	4	6	1	0	0	0	0	2	0	0
	TOTAL	24	4	0	5	7	2	0	0	0	1	3	0	0
DEXTER	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	24	3	3	11	9	2	0	0	0	1	3	0	0
	DAMAGE	139	10	8	44	48	7	1	0	0	1	14	0	3
	TOTAL	163	13	11	55	57	9	1	0	0	2	17	0	3
PUXICO	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	4	2	2	0	1	0	0	0	0	0	1	0	0
	DAMAGE	9	0	0	3	1	4	0	0	0	0	1	0	0
	TOTAL	13	2	2	3	2	4	0	0	0	0	2	0	0
POP UNDER 1000	FATAL	10	3	2	2	2	3	0	0	0	0	3	0	0
	INJURY	152	43	20	48	28	9	4	0	2	0	63	0	0
	DAMAGE	220	55	14	53	60	32	2	0	0	0	66	0	0
	TOTAL	382	101	36	103	90	44	6	0	2	0	132	0	0

**TABLE 4.0.1**

**2003 MISSOURI TRAFFIC CRASHES  
COUNTY AND CITY SUMMARY<sup>1</sup>**

CITY	CRASH SEVERITY	TOTAL ACCS	SPEED INV	DRINK INV	DRVR UND 21 INV	DRVR 55 + INV	COMM VEH INV	MOTOR-CYCLE INV	SCHOOL BUS INV	BIKE INV	PEDES-TRIAN INV	FIXED OBJECT INV	HAZ-ARD MATL INV	CONSTR/ OTH WK ZONE INV
STONE CO	FATAL	12	6	2	3	5	0	1	0	0	0	4	0	0
	INJURY	238	92	31	77	81	14	16	4	0	3	95	0	0
	DAMAGE	317	88	17	87	103	32	0	4	0	0	96	0	1
	TOTAL	567	186	50	167	189	46	17	8	0	3	195	0	1
CRANE	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	2	0	0	0	0	0	0	0	0	0	0	0	0
	DAMAGE	7	0	0	1	4	2	0	0	0	0	0	0	0
	TOTAL	9	0	0	1	4	2	0	0	0	0	0	0	0
KIMBERLING CITY	FATAL	1	1	1	1	0	0	0	0	0	0	1	0	0
	INJURY	5	0	0	0	5	0	0	0	0	0	1	0	0
	DAMAGE	21	3	0	5	11	1	0	0	0	0	5	0	0
	TOTAL	27	4	1	6	16	1	0	0	0	0	7	0	0
POP UNDER 1000	FATAL	11	5	1	2	5	0	1	0	0	0	3	0	0
	INJURY	231	92	31	77	76	14	16	4	0	3	94	0	0
	DAMAGE	289	85	17	81	88	29	0	4	0	0	91	0	1
	TOTAL	531	182	49	160	169	43	17	8	0	3	188	0	1
SULLIVAN CO	FATAL	1	0	0	0	0	0	1	0	0	0	0	0	0
	INJURY	43	18	6	15	5	3	0	0	0	1	17	0	0
	DAMAGE	86	15	6	20	21	7	0	1	0	0	21	0	0
	TOTAL	130	33	12	35	26	10	1	1	0	1	38	0	0
MILAN	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	7	2	1	3	0	0	0	0	0	1	0	0	0
	DAMAGE	34	3	3	9	9	1	0	0	0	0	6	0	0
	TOTAL	41	5	4	12	9	1	0	0	0	1	6	0	0
POP UNDER 1000	FATAL	1	0	0	0	0	0	1	0	0	0	0	0	0
	INJURY	36	16	5	12	5	3	0	0	0	0	17	0	0
	DAMAGE	52	12	3	11	12	6	0	1	0	0	15	0	0
	TOTAL	89	28	8	23	17	9	1	1	0	0	32	0	0
TANEY CO	FATAL	10	6	4	2	4	1	0	0	0	0	4	0	0
	INJURY	599	197	63	170	174	35	24	2	0	10	173	2	2
	DAMAGE	1022	186	52	281	370	68	2	2	0	1	177	1	2
	TOTAL	1631	389	119	453	548	104	26	4	0	11	354	3	4
BRANSON	FATAL	1	0	0	0	1	0	0	0	0	0	0	0	0
	INJURY	219	30	8	71	82	2	11	0	0	4	27	0	1
	DAMAGE	517	50	8	141	218	19	1	0	0	1	41	0	1
	TOTAL	737	80	16	212	301	21	12	0	0	5	68	0	2
FORSYTH	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	14	2	0	3	5	1	0	0	0	2	3	0	0
	DAMAGE	36	1	3	9	20	3	0	0	0	0	3	0	0
	TOTAL	50	3	3	12	25	4	0	0	0	2	6	0	0
HOLLISTER	FATAL	1	0	0	0	1	1	0	0	0	0	0	0	0
	INJURY	39	9	4	9	11	3	0	0	0	0	4	0	0
	DAMAGE	126	8	6	44	47	8	0	0	0	0	10	0	1
	TOTAL	166	17	10	53	59	12	0	0	0	0	14	0	1
MERRIAM WOODS	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	3	1	1	0	0	0	0	0	0	0	0	0	0
	DAMAGE	2	0	1	1	0	0	0	0	0	0	0	0	0
	TOTAL	5	1	2	1	0	0	0	0	0	0	0	0	0
POP UNDER 1000	FATAL	8	6	4	2	2	0	0	0	0	0	4	0	0
	INJURY	324	155	50	87	76	29	13	2	0	4	139	2	1
	DAMAGE	341	127	34	86	85	38	1	2	0	0	123	1	0
	TOTAL	673	288	88	175	163	67	14	4	0	4	266	3	1
TEXAS CO	FATAL	7	3	0	2	2	2	1	0	0	1	1	0	0
	INJURY	149	69	16	38	36	20	7	0	2	2	65	1	0
	DAMAGE	273	68	19	76	78	33	0	2	0	0	74	0	2
	TOTAL	429	140	35	116	116	55	8	2	2	3	140	1	2
CABOOL	FATAL	1	0	0	0	1	0	0	0	0	0	0	0	0
	INJURY	11	1	1	5	2	2	0	0	1	2	2	0	0
	DAMAGE	31	3	1	13	10	4	0	0	0	0	6	0	0
	TOTAL	43	4	2	18	13	6	0	0	1	2	8	0	0
HOUSTON	FATAL	1	0	0	0	0	1	0	0	0	0	0	0	0
	INJURY	13	2	1	2	8	2	2	0	1	0	2	0	0
	DAMAGE	52	5	2	17	25	2	0	0	0	0	5	0	1
	TOTAL	66	7	3	19	33	5	2	0	1	0	7	0	1

**TABLE 4.0.1**

**2003 MISSOURI TRAFFIC CRASHES  
COUNTY AND CITY SUMMARY<sup>1</sup>**

CITY	CRASH SEVERITY	TOTAL ACCS	SPEED INV	DRINK INV	DRVR UND 21 INV	DRVR 55 + INV	COMM VEH INV	MOTOR-CYCLE INV	SCHOOL BUS INV	BIKE INV	PEDES-TRIAN INV	FIXED OBJECT INV	HAZ-ARD MATL INV	CONSTR/OTH WK ZONE INV
LICKING	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	3	1	0	0	1	0	0	0	0	0	1	0	0
	DAMAGE	15	1	0	6	4	1	0	0	0	0	1	0	0
	TOTAL	18	2	0	6	5	1	0	0	0	0	2	0	0
POP UNDER 1000	FATAL	5	3	0	2	1	1	1	0	0	1	1	0	0
	INJURY	122	65	14	31	25	16	5	0	0	0	60	1	0
	DAMAGE	175	59	16	40	39	26	0	2	0	0	62	0	1
	TOTAL	302	127	30	73	65	43	6	2	0	1	123	1	1
VERNON CO	FATAL	6	2	2	2	2	0	0	0	0	0	2	0	0
	INJURY	152	40	14	41	40	24	7	0	1	3	51	0	0
	DAMAGE	380	64	14	104	117	51	0	3	0	0	83	0	2
	TOTAL	538	106	30	147	159	75	7	3	1	3	136	0	2
NEVADA	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	69	14	3	24	22	11	4	0	1	3	10	0	0
	DAMAGE	232	27	5	70	84	32	0	2	0	0	35	0	2
	TOTAL	301	41	8	94	106	43	4	2	1	3	45	0	2
POP UNDER 1000	FATAL	6	2	2	2	2	0	0	0	0	0	2	0	0
	INJURY	83	26	11	17	18	13	3	0	0	0	41	0	0
	DAMAGE	148	37	9	34	33	19	0	1	0	0	48	0	0
	TOTAL	237	65	22	53	53	32	3	1	0	0	91	0	0
WARREN CO	FATAL	7	4	0	3	3	3	0	0	0	0	2	0	0
	INJURY	182	58	17	42	46	20	14	0	1	5	75	0	4
	DAMAGE	564	103	7	163	140	94	3	4	1	0	127	1	32
	TOTAL	753	165	24	208	189	117	17	4	2	5	204	1	36
WARRENTON	FATAL	1	0	0	0	1	0	0	0	0	0	0	0	0
	INJURY	30	3	2	8	13	3	1	0	1	3	8	0	3
	DAMAGE	213	12	2	73	71	20	3	0	1	0	19	0	22
	TOTAL	244	15	4	81	85	23	4	0	2	3	27	0	25
WRIGHT CITY	FATAL	1	1	0	1	1	1	0	0	0	0	0	0	0
	INJURY	17	4	3	5	4	3	2	0	0	0	6	0	1
	DAMAGE	75	24	0	17	11	16	0	1	0	0	27	0	2
	TOTAL	93	29	3	23	16	20	2	1	0	0	33	0	3
POP UNDER 1000	FATAL	5	3	0	2	1	2	0	0	0	0	2	0	0
	INJURY	135	51	12	29	29	14	11	0	0	2	61	0	0
	DAMAGE	276	67	5	73	58	58	0	3	0	0	81	1	8
	TOTAL	416	121	17	104	88	74	11	3	0	2	144	1	8
WASHINGTON CO	FATAL	10	2	1	2	3	2	2	0	1	0	3	0	0
	INJURY	170	68	16	58	33	14	5	1	1	2	71	0	1
	DAMAGE	266	60	12	80	59	29	3	2	0	0	77	1	0
	TOTAL	446	130	29	140	95	45	10	3	2	2	151	1	1
POTOSI	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	27	1	2	12	6	1	0	1	0	1	2	0	0
	DAMAGE	83	4	1	38	30	6	0	0	0	0	3	0	0
	TOTAL	110	5	3	50	36	7	0	1	0	1	5	0	0
POP UNDER 1000	FATAL	10	2	1	2	3	2	2	0	1	0	3	0	0
	INJURY	143	67	14	46	27	13	5	0	1	1	69	0	1
	DAMAGE	183	56	11	42	29	23	3	2	0	0	74	1	0
	TOTAL	336	125	26	90	59	38	10	2	2	1	146	1	1
WAYNE CO	FATAL	11	7	1	2	5	0	0	0	0	0	6	0	0
	INJURY	91	46	16	23	20	9	5	0	0	0	53	0	0
	DAMAGE	203	60	10	59	39	31	1	1	0	0	76	1	1
	TOTAL	305	113	27	84	64	40	6	1	0	0	135	1	1
PIEDMONT	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	8	2	0	6	2	0	0	0	0	0	4	0	0
	DAMAGE	40	0	0	16	10	4	0	0	0	0	3	0	0
	TOTAL	48	2	0	22	12	4	0	0	0	0	7	0	0
POP UNDER 1000	FATAL	11	7	1	2	5	0	0	0	0	0	6	0	0
	INJURY	83	44	16	17	18	9	5	0	0	0	49	0	0
	DAMAGE	163	60	10	43	29	27	1	1	0	0	73	1	1
	TOTAL	257	111	27	62	52	36	6	1	0	0	128	1	1
WEBSTER CO	FATAL	8	5	1	1	2	2	0	0	0	1	5	0	0
	INJURY	181	65	17	60	45	29	11	0	3	1	67	1	0
	DAMAGE	453	111	16	131	116	100	0	4	0	2	124	0	3
	TOTAL	642	181	34	192	163	131	11	4	3	4	196	1	3

**TABLE 4.0.1**

**2003 MISSOURI TRAFFIC CRASHES  
COUNTY AND CITY SUMMARY<sup>1</sup>**

CITY	CRASH SEVERITY	TOTAL ACCS	SPEED INV	DRINK INV	DRVR UND 21 INV	DRVR 55 + INV	COMM VEH INV	MOTOR-CYCLE INV	SCHOOL BUS INV	BIKE INV	PEDES-TRIAN INV	FIXED OBJECT INV	HAZ-ARD MATL INV	CONSTR/ OTH WK ZONE INV
MARSHFIELD	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	32	8	1	12	16	5	1	0	1	0	5	0	0
	DAMAGE	133	8	2	54	37	16	0	0	0	1	17	0	0
	TOTAL	165	16	3	66	53	21	1	0	1	1	22	0	0
ROGERSVILLE / WEB	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	7	1	1	3	1	1	0	0	1	0	0	0	0
	DAMAGE	36	5	0	7	11	5	0	2	0	0	8	0	0
	TOTAL	43	6	1	10	12	6	0	2	1	0	8	0	0
SEYMOUR	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	4	0	1	1	0	0	1	0	0	0	2	0	0
	DAMAGE	18	3	0	3	10	6	0	0	0	0	2	0	0
	TOTAL	22	3	1	4	10	6	1	0	0	0	4	0	0
POP UNDER 1000	FATAL	8	5	1	1	2	2	0	0	0	1	5	0	0
	INJURY	138	56	14	44	28	23	9	0	1	1	60	1	0
	DAMAGE	266	95	14	67	58	73	0	2	0	1	97	0	3
	TOTAL	412	156	29	112	88	98	9	2	1	3	162	1	3
WORTH CO	FATAL	1	1	1	0	0	0	0	0	0	0	1	0	0
	INJURY	9	1	3	4	3	1	0	0	0	0	6	0	0
	DAMAGE	31	7	1	10	1	1	0	0	0	0	13	0	0
	TOTAL	41	9	5	14	4	2	0	0	0	0	20	0	0
POP UNDER 1000	FATAL	1	1	1	0	0	0	0	0	0	0	1	0	0
	INJURY	9	1	3	4	3	1	0	0	0	0	6	0	0
	DAMAGE	31	7	1	10	1	1	0	0	0	0	13	0	0
	TOTAL	41	9	5	14	4	2	0	0	0	0	20	0	0
WRIGHT CO	FATAL	4	2	1	1	0	0	0	0	0	0	2	0	0
	INJURY	100	30	9	34	28	11	3	0	0	1	50	0	1
	DAMAGE	196	36	11	63	52	27	0	4	0	0	45	0	0
	TOTAL	300	68	21	98	80	38	3	4	0	1	97	0	1
MANSFIELD	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	2	0	0	1	0	0	0	0	0	0	1	0	0
	DAMAGE	16	0	0	5	5	1	0	0	0	0	2	0	0
	TOTAL	18	0	0	6	5	1	0	0	0	0	3	0	0
MOUNTAIN GROVE	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	19	0	0	10	10	0	0	0	0	1	1	0	0
	DAMAGE	70	3	3	29	30	7	0	2	0	0	3	0	0
	TOTAL	89	3	3	39	40	7	0	2	0	1	4	0	0
POP UNDER 1000	FATAL	4	2	1	1	0	0	0	0	0	0	2	0	0
	INJURY	79	30	9	23	18	11	3	0	0	0	48	0	1
	DAMAGE	110	33	8	29	17	19	0	2	0	0	40	0	0
	TOTAL	193	65	18	53	35	30	3	2	0	0	90	0	1
ST LOUIS CITY	FATAL	47	26	9	13	10	3	3	1	0	14	10	0	0
	INJURY	4374	584	90	863	946	337	71	70	88	359	517	2	39
	DAMAGE	14494	1597	119	1962	2549	1636	34	316	22	27	1784	5	148
	TOTAL	18915	2207	218	2838	3505	1976	108	387	110	400	2311	7	187
STATE TOTALS	FATAL	1095	447	249	241	313	179	81	7	9	80	413	3	21
	INJURY	45966	10682	3603	13305	11650	3645	1362	253	629	1395	10729	38	1013
	DAMAGE	135563	20514	4229	33642	31878	14099	329	1172	140	90	20670	75	3436
	TOTAL	182624	31643	8081	47188	43841	17923	1772	1432	778	1565	31812	116	4470
INCORPORATED AREAS	FATAL	331	122	72	69	108	49	34	3	5	48	96	1	12
	INJURY	30126	5113	1612	8505	8172	2061	749	195	554	1203	4019	15	753
	DAMAGE	103878	12588	2628	25199	24934	9538	243	931	127	80	11609	39	2601
	TOTAL	134335	17823	4312	33773	33214	11648	1026	1129	686	1331	15724	55	3366

<sup>1</sup> All traffic crash activity occurring in a county and cities within a county is presented in this data display. A note of caution is warranted for cities whose jurisdictional boundaries cover more than one county. For City A whose boundaries fall in County A and County B - County A's portion of the data display will have County A City A's traffic crash activity presented. County B's portion of the data display will have County B City A's traffic crash activity presented. Those cities falling in more than one county can be identified by their name being followed by a slash (/) and the first three letters of the county name (e.g., Kansas City/JAC). Table 4.0.2 is presented to identify the total crash activity of these multi-county cities.

**TABLE 4.0.1**

**2003 MISSOURI TRAFFIC CRASHES  
MULTI-COUNTY CITY SUMMARY<sup>1</sup>**

CITY	CRASH SEVERITY	TOTAL ACCS	SPEED INV	DRINK INV	DRVR UND 21 INV	DRVR 55 + INV	COMM VEH INV	MOTOR-CYCLE INV	SCHOOL BUS INV	BIKE INV	PEDES-TRIAN INV	FIXED OBJECT INV	HAZ-ARD MATL INV	CONSTR/OTH WK ZONE INV
CAMERON	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	31	8	0	8	9	1	0	0	0	0	7	0	0
	DAMAGE	121	10	3	42	46	11	1	1	0	0	12	0	0
	TOTAL	152	18	3	50	55	12	1	1	0	0	19	0	0
CAPE GIRARDEAU	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	240	14	7	85	83	12	4	0	8	13	23	0	3
	DAMAGE	1636	133	22	508	440	126	7	8	4	0	185	1	18
	TOTAL	1876	147	29	593	523	138	11	8	12	13	208	1	21
EXCELSIOR SPRINGS	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	69	11	2	31	21	3	6	0	2	4	18	0	0
	DAMAGE	223	33	3	82	47	18	0	1	1	0	48	0	0
	TOTAL	292	44	5	113	68	21	6	1	3	4	66	0	0
HANNIBAL	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	156	26	12	55	42	13	5	0	2	9	29	0	1
	DAMAGE	634	80	24	163	169	66	4	2	1	1	74	1	3
	TOTAL	790	106	36	218	211	79	9	2	3	10	103	1	4
JEFFERSON CITY	FATAL	3	0	2	1	1	0	0	0	0	0	0	0	0
	INJURY	397	40	12	141	127	30	8	1	7	8	48	1	2
	DAMAGE	1223	86	21	402	323	133	2	11	0	0	105	0	4
	TOTAL	1623	126	35	544	451	163	10	12	7	8	153	1	6
JOPLIN	FATAL	7	2	1	2	2	0	0	0	0	1	1	0	0
	INJURY	641	45	40	201	203	50	12	0	19	17	60	1	12
	DAMAGE	1647	108	41	490	521	128	3	8	3	1	108	1	21
	TOTAL	2295	155	82	693	726	178	15	8	22	19	169	2	33
KANSAS CITY	FATAL	62	28	17	9	14	10	9	0	1	12	19	0	3
	INJURY	4807	1035	273	713	1047	313	121	22	56	232	762	2	206
	DAMAGE	19404	2619	457	2022	3398	1538	47	156	13	20	2164	5	663
	TOTAL	24273	3682	747	2744	4459	1861	177	178	70	264	2945	7	872
LAKE OZARK	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	27	7	1	7	6	4	2	0	0	0	3	0	3
	DAMAGE	105	9	1	31	31	7	2	1	0	0	14	0	11
	TOTAL	132	16	2	38	37	11	4	1	0	0	17	0	14
LAWSON	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	5	1	0	4	3	0	0	0	0	1	1	0	0
	DAMAGE	26	3	1	8	6	1	0	0	0	0	3	0	0
	TOTAL	31	4	1	12	9	1	0	0	0	1	4	0	0
MONETT	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	59	10	3	19	18	7	0	0	4	3	6	0	0
	DAMAGE	164	28	11	52	47	23	0	1	1	0	15	0	4
	TOTAL	223	38	14	71	65	30	0	1	5	3	21	0	4
MONROE CITY	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	10	0	0	6	3	1	0	0	0	0	0	0	0
	DAMAGE	40	3	3	19	10	6	0	0	0	0	4	0	0
	TOTAL	50	3	3	25	13	7	0	0	0	0	4	0	0
OSAGE BEACH	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	88	6	15	25	36	9	7	0	1	0	16	0	1
	DAMAGE	270	21	8	76	105	40	1	1	0	0	31	1	3
	TOTAL	358	27	23	101	141	49	8	1	1	0	47	1	4
RICHLAND	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	3	1	0	2	0	0	0	0	0	0	0	0	0
	DAMAGE	23	4	0	4	11	6	0	3	0	0	5	0	0
	TOTAL	26	5	0	6	11	6	0	3	0	0	5	0	0
ROGERSVILLE	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	8	1	1	3	1	1	0	0	1	0	1	0	0
	DAMAGE	36	5	0	7	11	5	0	2	0	0	8	0	0
	TOTAL	44	6	1	10	12	6	0	2	1	0	9	0	0
SULLIVAN	FATAL	0	0	0	0	0	0	0	0	0	0	0	0	0
	INJURY	29	6	2	4	10	4	2	1	1	2	0	0	1
	DAMAGE	162	16	1	49	52	23	0	2	0	0	8	0	2
	TOTAL	191	22	3	53	62	27	2	3	1	2	8	0	3

<sup>1</sup> All traffic crash activity occurring in cities having jurisdictional boundaries in more than one county is presented in this data display. The total crash activity for each multi-county city is presented in this display.

**TABLE 4.0.2**

## GLOSSARY

**BICYCLE INVOLVED TRAFFIC CRASH:** Any crash in which one or more bicycles were directly involved in the incident.

**COMMERCIAL MOTOR VEHICLE INVOLVED TRAFFIC CRASH:** Any crash in which one or more commercial motor vehicles were directly involved in the incident. Commercial motor vehicles include trucks having 6 or more tires on the power unit, buses or school buses having occupant capacities of 16 or more, and vehicles displaying hazardous material placards.

**CONSTRUCTION / OTHER WORK ZONE INVOLVED TRAFFIC CRASH:** Any crash in which one or more of the traffic controls directly associated with the incident was a construction or other work zone.

**DEATH RATE:** The number of deaths resulting from traffic crashes per 100 million miles of travel which occurred in the State annually. The formula is:

$$\frac{\text{Annual deaths} \times 100,000,000}{\text{Annual Vehicle Miles of Travel}}$$

**DRINKING INVOLVED TRAFFIC CRASH:** Any crash in which one or more drivers or pedestrians were drinking and, in the opinion of the investigating officer, their intoxicated condition contributed to the cause of the crash. There are strong indications that investigating officers under-report drinking involvement as a contributing factor in traffic crashes. As a result, this under-reporting should be taken into consideration when reviewing drinking involved data presented in this Compendium.

**FATAL TRAFFIC CRASH:** A crash in which one or more persons were killed as a result of the crash and their death(s) occurred within 30 days of the incident. From 1979 - 1987, a crash would be classified as a fatal if their death(s) occurred within 90 days of the incident. Prior to 1979, a crash would be classified as a fatal if their death(s) occurred within 12 months of the incident.

**FIXED OBJECT TRAFFIC CRASH:** Any traffic crash whose first harmful event involved a motor vehicle striking a fixed object. Crashes where a motor vehicle struck a fixed object as a result of a secondary event in a crash are **not** included in this definition of terms.

**HAZARDOUS MATERIAL INVOLVED TRAFFIC CRASH:** Any crash in which one or more vehicles involved in the incident were carrying hazardous materials.

**INJURY RATE:** The number of deaths and injuries resulting from traffic crashes per 100 million miles of travel which occurred in the State annually. The formula is:

$$\frac{\text{Annual deaths and injuries} \times 100,000,000}{\text{Annual Vehicle Miles of Travel}}$$

**MOTORCYCLE INVOLVED TRAFFIC CRASH:** Any crash in which one or more motorcycles were involved in the incident. Mopeds and all terrain vehicles (ATV's) are **not** considered motorcycles under this definition of terms.

**OLDER DRIVER INVOLVED TRAFFIC CRASH:** Any crash in which one or more drivers of motorized vehicles directly involved in the traffic crash were 55 years of age or older.



**PEDESTRIAN INVOLVED TRAFFIC CRASH:** Any crash in which one or more pedestrians were directly involved in the crash.

**PERSONAL INJURY TRAFFIC CRASH:** Any crash in which no person was killed but one or more persons were injured in the incident.

**PROPERTY DAMAGE TRAFFIC CRASH:** Any crash in which no person was killed or injured but property was damaged in the incident.

**QUARTILE:** The value that marks the boundary between two consecutive intervals in a frequency distribution of four intervals with each containing one quarter of the total population.

**RATE OF CHANGE:** The formula is:

$$\frac{\text{Value in Current Period} - \text{Value in Base Period}}{\text{Value in Base Period}} \times 100$$

**RURAL AREA:** Any community of less than 5,000 population or an unincorporated area of the State.

**SCHOOL BUS INVOLVED TRAFFIC CRASH:** Any crash in which one or more school buses were directly involved in the incident or where a school bus signal was associated with the traffic crash.

**SPEED INVOLVED TRAFFIC CRASH:** Any crash in which one or more drivers of motorized vehicles were exceeding the speed limit or driving too fast for conditions and, in the opinion of the investigating law enforcement officer, the driver error contributed to the cause of the crash.

**TIME SERIES:** Time series analysis was used in the Compendium to forecast future death and injury rates as well as fatal and personal injury traffic crash activity. In most instances, ten years of past data were used to make these projections.

The technique used in these projections was Exponential Smoothing (available through the SAS Econometrics and Time Series software package). Use of this technique took into consideration the limited number of data points in the time series, as well as whether or not the time series was best characterized as constant, linear, or nonlinear. In applying the smoothing technique, greater weight was given to more recent data values than to earlier data values when projecting future levels of activity.

**URBAN AREA:** Any community in the State having a population of 5,000 or more.

**YOUNG DRIVER INVOLVED TRAFFIC CRASH:** Any crash in which one or more drivers of motorized vehicles directly involved in the traffic crash were under the age of 21.